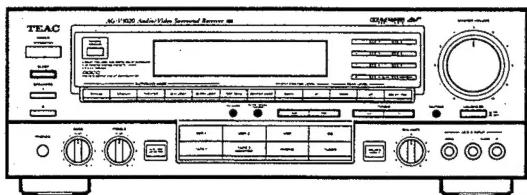


# TEAC®



## SERVICE MANUAL

# AG-V3020

Audio/Video Surround Receiver

### NOTES

- PC boards shown are viewed from parts side.
- Parts marked with \* require longer delivery time.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- △ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.  
[J]:JAPAN [US]:U. S. A. [C]:CANADA [GE]:GENERAL EXPORT  
[E]:EUROPE [UK]:U. K. [A]:AUSTRALIA

# 1. SPECIFICATIONS

## Amplifier Section

### Output Power:

**Front:** F.T.C. Rating: 100 watts RMS per channel minimum, both channels driven into 8 ohms from 20 Hz to 20 kHz with no more than 0.07% total harmonic distortion (U.S.A./Canada)

RMS Power (20 Hz - 20 kHz):

95 watts/8 ohms 0.07 % (Europe)

100 watts/8 ohms 0.07 % (General Export)

DIN power: 115 watts/8 ohms (Europe)

**Rear:** 17 watts RMS per channel minimum, both channels driven into 8 ohms from 80 Hz to 7 kHz with no more than 0.7% total harmonic distortion.

**Center:** 28 watts RMS minimum, driven into 8 ohms from 50 Hz to 15 kHz with no more than 0.07% total harmonic distortion.

### Total Harmonic Distortion (Front):

0.01% (at 100 watts, 1 kHz)

### Intermodulation Distortion (Front):

0.02% (at 100 watts)

### Surround Mode:

Delay Time:

DOLBY PRO LOGIC: 15 to 30 ms (5 ms steps)

THEATER: 5 to 40 ms (5 ms steps)

STADIUM: 5 to 40 ms (5 ms steps)

### Input Sensitivity/Impedance:

PHONO (MM): 2.5 mV/47 k ohms

LINE\*: 150 mV/47 k ohms

### Frequency Response:

30 Hz - 20 kHz ±1 dB (PHONO)

10 Hz - 60 kHz -3 dB (LINE\*)

### Signal-to-Noise Ratio:

PHONO (MM): 73 dB

LINE\*: 94 dB

### Tone Control:

Bass: ±10 dB at 100 Hz

Treble: ±10 dB at 10 kHz

## FM Tuner Section

### (without notes 98.1 MHz 65 dBf)

#### Tuning Range:

87.5 MHz - 108.0 MHz (100 kHz steps)  
(U.S.A./Canada)

87.50 MHz - 108.00 MHz (50 kHz steps)  
(Europe/General Export)

#### Usable Sensitivity (IHF):

Mono: 10.8 dBf (U.S.A./Canada/General Export)  
Mono: 13 dBf (Europe)

#### 50 dB Quieting Sensitivity:

Mono: 18 dBf/Stereo 38 dBf  
(U.S.A./Canada/General Export)

Mono: 20 dBf/Stereo 42 dBf (Europe)

#### Capture Ratio:

1.5 dB (U.S.A./Canada)

2.5 dB (Europe/General Export)

#### Image Rejection Ratio:

55 dB (U.S.A./Canada/General Export)

80 dB (Europe)

#### AM Suppression Ratio:

60 dB

### RF Intermodulation: 65 dB

### Total Harmonic Distortion (1 kHz):

Mono: 0.2%/Stereo 0.4%

### Frequency Response:

30 Hz - 15 kHz ±1 dB

### Stereo Separation (1 kHz): 45 dB

### Signal-to-Noise Ratio:

Mono: 78 dB/Stereo 70 dB

## AM Tuner Section

### Tuning Range:

530 kHz - 1,710 kHz (10-kHz steps)

(U.S.A./Canada)

522 kHz - 1,611 kHz (9-kHz steps)

(Europe/General Export)

### Usable Sensitivity:

52 dB/m

### Total Harmonic Distortion:

0.6% at 85 dB/m

### Signal-to-Noise Ratio:

50 dB at 85 dB/m

## Video Section

### Input Sensitivity/Impedance:

1.0 Vp-p/75 ohms

### Output Level/Impedance:

1.0 Vp-p/75 ohms

### Frequency Response:

5 to 6 MHz (-3 dB)

### Signal-to-Noise Ratio:

60 dB (1 kHz, HPF IN)

## General

### Power Requirements:

120 V AC, 60 Hz (U.S.A./Canada)

230 V AC, 50 Hz (Europe)

120/230 V AC, 50/60 Hz (General Export)

### Power Consumption:

2.7 A (U.S.A./Canada)

620 W (Europe/General Export)

### AC Outlet:

Switched x 2, Total 100 W max. (1 A max.)

(U.S.A./Canada)

Switched x 1, 100 W max.

(Europe/General Export)

### Dimensions (WxHxD): 435 x 156 x 380 mm

(17-1/8" x 6-1/8" x 14-15/16")

### Weight (net): 13 kg (28-11/16 lbs.)

### Standard Accessories:

AM Loop Antenna x 1

FM "T" Type Antenna x 1

Remote Control Unit (UR-404) x 1

Battery ("AA", "R06", SUM-3) x 2

Matching Transformer (300 ohms to 75 ohms)

(Europe) x 1

AC Plug Adapter (General Export) x 1

\* LINE means CD, VCR 1, VCR 2, VDP, TAPE 1, and TAPE 2.

• Improvements may result in specifications and features changing without notice.

• Illustrations may differ slightly from production models.

## 2. ADJUSTMENTS AND CHECKS

### 2-1. AM OSC. TRACKING ADJUSTMENT

1. Set the unit to "AM" position.
2. Connect the DC Voltmeter to TP1 in Fig. 2-4.
3. Place the radio frequency display to 530 kHz (522 kHz for General Export).
4. Adjust L102 core until DC Voltmeter indicates DC  $1.2V \pm 0.2V$ .
5. Place the radio frequency display to 1,710 kHz (1,611 kHz for General Export).
6. Adjust TC102 until DC Voltmeter indicates DC  $9.0V \pm 0.2V$  (DC  $8.6V \pm 0.2V$  for General Export).
7. Repeat step 3, 4, 5, 6.

### 2-2. AM IF ADJUSTMENT

1. Test equipment connections are shown in Fig. 2-1.
2. Set the unit to "AM" position.
3. Place the radio frequency and signal generator setting to 1,000 kHz (999 kHz for General Export).
4. Adjust L105 for maximum output.

### 2-3. AM RF ADJUSTMENT

1. Test equipment connections are shown in Fig. 2-1.
2. Set the unit to "AM" position.
3. Place radio frequency and signal generator setting to 1,400 kHz (1,404 kHz for General Export).
4. Adjust TC101 for maximum output.
5. Place radio frequency and signal generator setting to 600 kHz (603 kHz for General Export).
6. Adjust L101 for maximum output.
7. Repeat steps 3, 4, 5, 6.

#### AM SIGNAL GENERATOR CONDITION

Modulation \_\_\_\_\_ 30%  
 Modulation frequency \_\_\_\_\_ 400 Hz

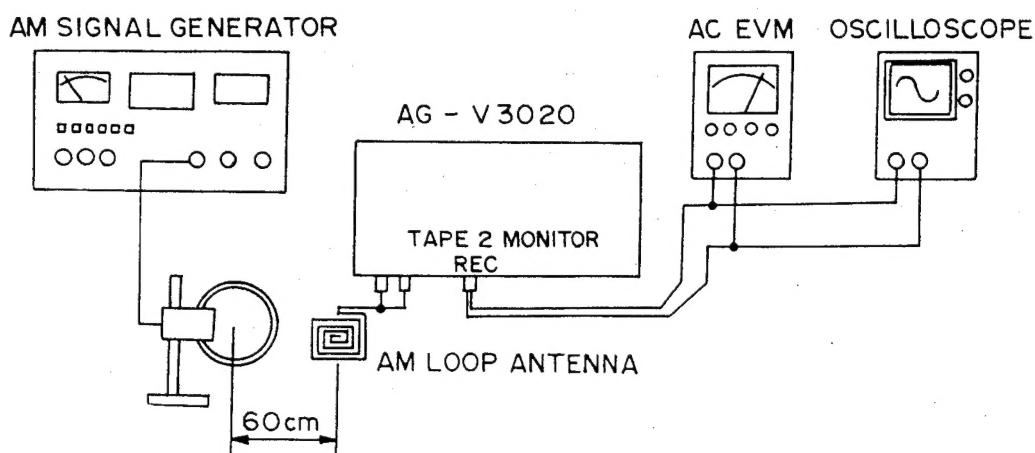


Fig. 2-1

### 2-4. AM TUNED LED ON LEVEL ADJUSTMENT

1. Place radio frequency and signal generator setting to 1,000 kHz (999 kHz for General Export).
2. Adjust VR101 so that "TUNED" appears in the display.

#### AM SIGNAL GENERATOR CONDITION

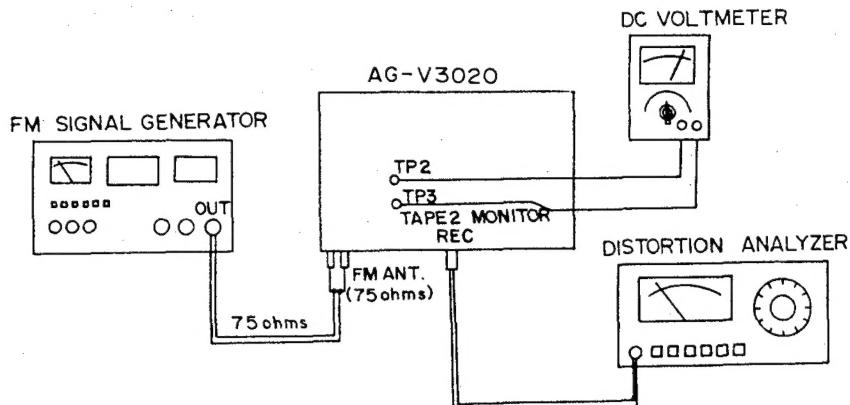
Output level \_\_\_\_\_ 60 dB/m

**2-5. FM MONO IF DISTORTION ADJUSTMENT**

1. Test equipment connections are shown in Fig. 2-2.
2. Set the unit to "FM" position.
3. Place the radio frequency and signal generator setting to 98.1 MHz.
4. Adjust L103 core until DC Voltmeter indicates DC  $0 \pm 50$  mV.
5. Adjust L104 core until Distortion Analyzer range indicates minimum output.
6. Repeat step 4, 5.

**FM SIGNAL GENERATOR CONDITION**

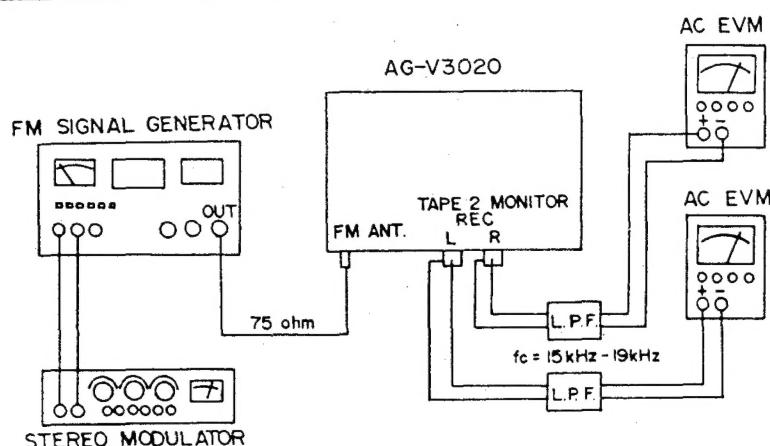
Modulation \_\_\_\_\_ 100% (75 kHz dev.)  
 Modulation frequency \_\_\_\_\_ 1 kHz  
 Output level \_\_\_\_\_ 65 dBf

**Fig. 2-2****2-6. FM STEREO SEPARATING ADJUSTMENT**

1. Test equipment connections are shown in Fig. 2-3.
2. Set the unit to "FM STEREO" position.
3. Place the radio frequency and signal generator setting to 98.1 MHz.
4. Adjust VR103 so that R channel output is minimized when stereo modulator is in "L" (L channel modulation) mode.
5. Readjust VR103 so that L channel output is minimized when stereo modulator is in "R" (R channel modulation) mode.

**FM SIGNAL GENERATOR CONDITION**

Modulation \_\_\_\_\_ "L" mode or "R" mode 45%, Pilot 10%  
 Modulation frequency \_\_\_\_\_ 1 kHz, Pilot (19 kHz)  
 Output level \_\_\_\_\_ 65 dBf

**Fig. 2-3**

## **2-7. FM TUNED LED ON LEVEL ADJUSTMENT**

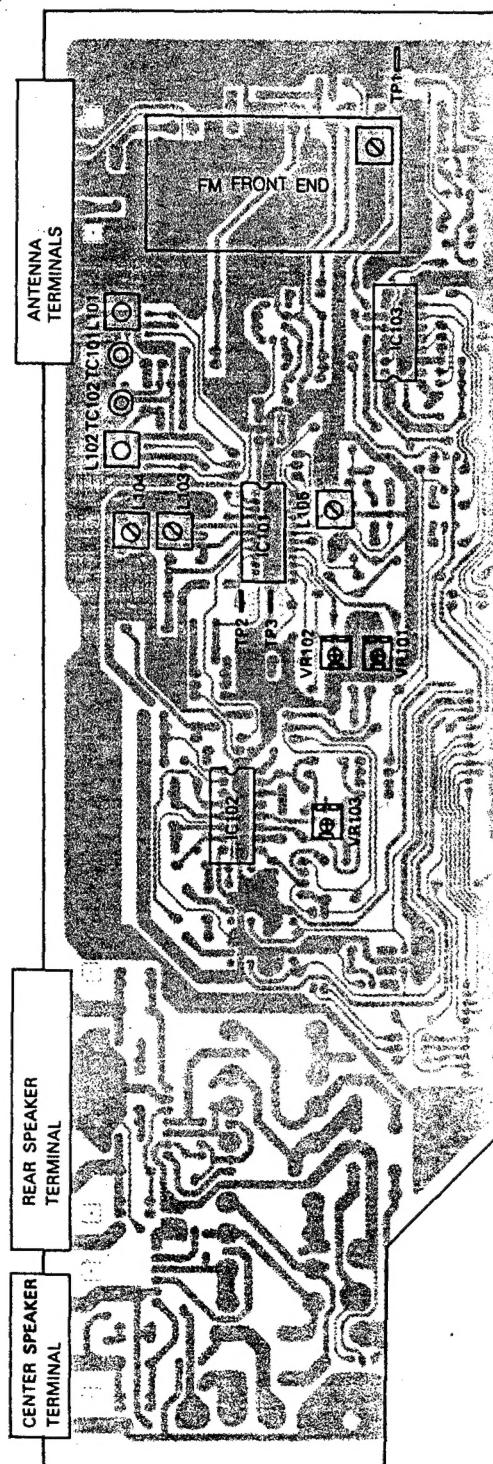
1. Place the radio frequency and signal generator setting to 98.1 MHz.
2. Adjust VR102 so that "TUNED" appears in the display.

## **FM SIGNAL GENERATOR CONDITION**

Output level \_\_\_\_\_ 28 dBf

## **2-8. ADJUSTMENTS AND TEST POINTS**

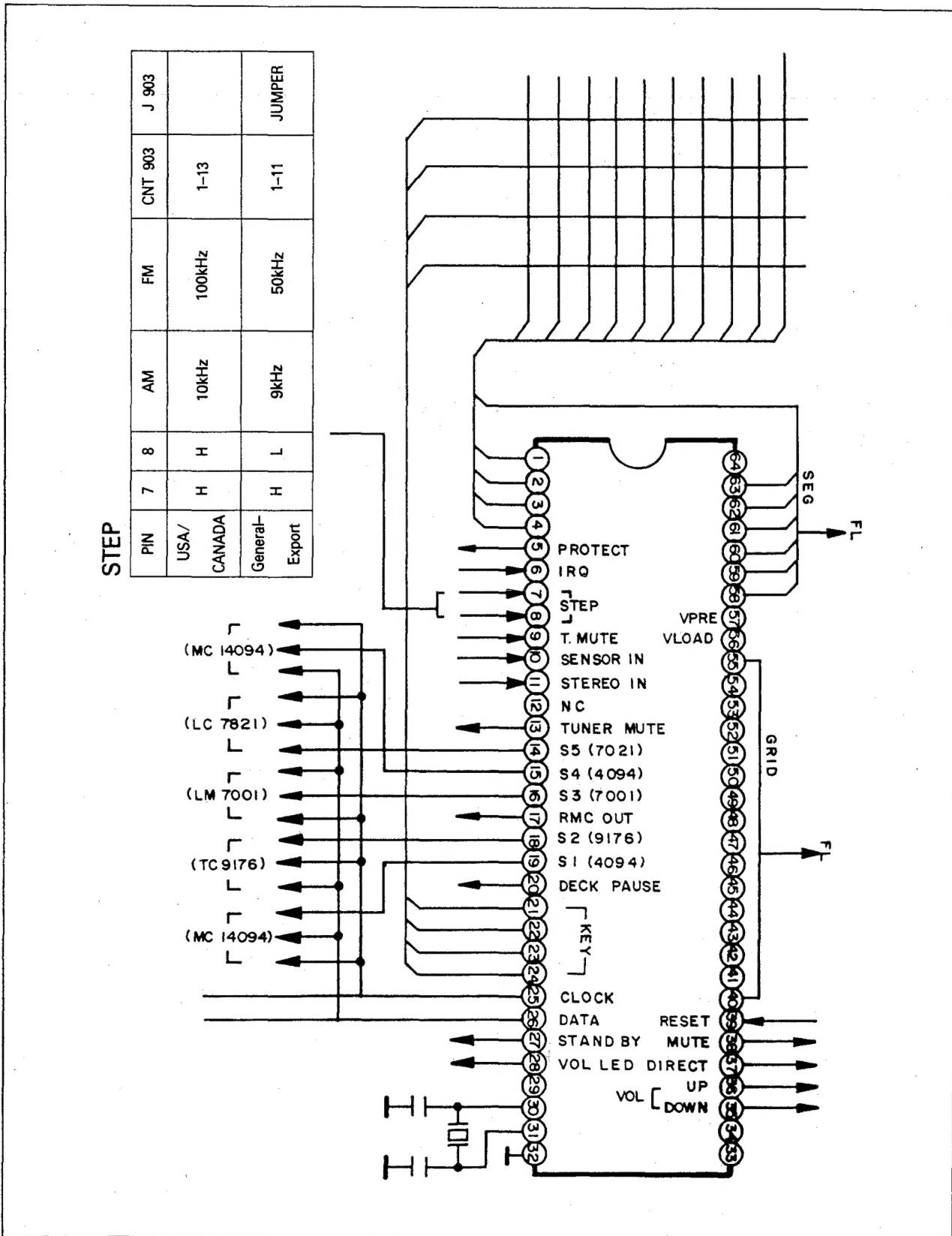
**USA/CANADA/General Export**



**Fig. 2-4**

3. MICROCOMPUTER (IC901:  $\mu$ PD75216)

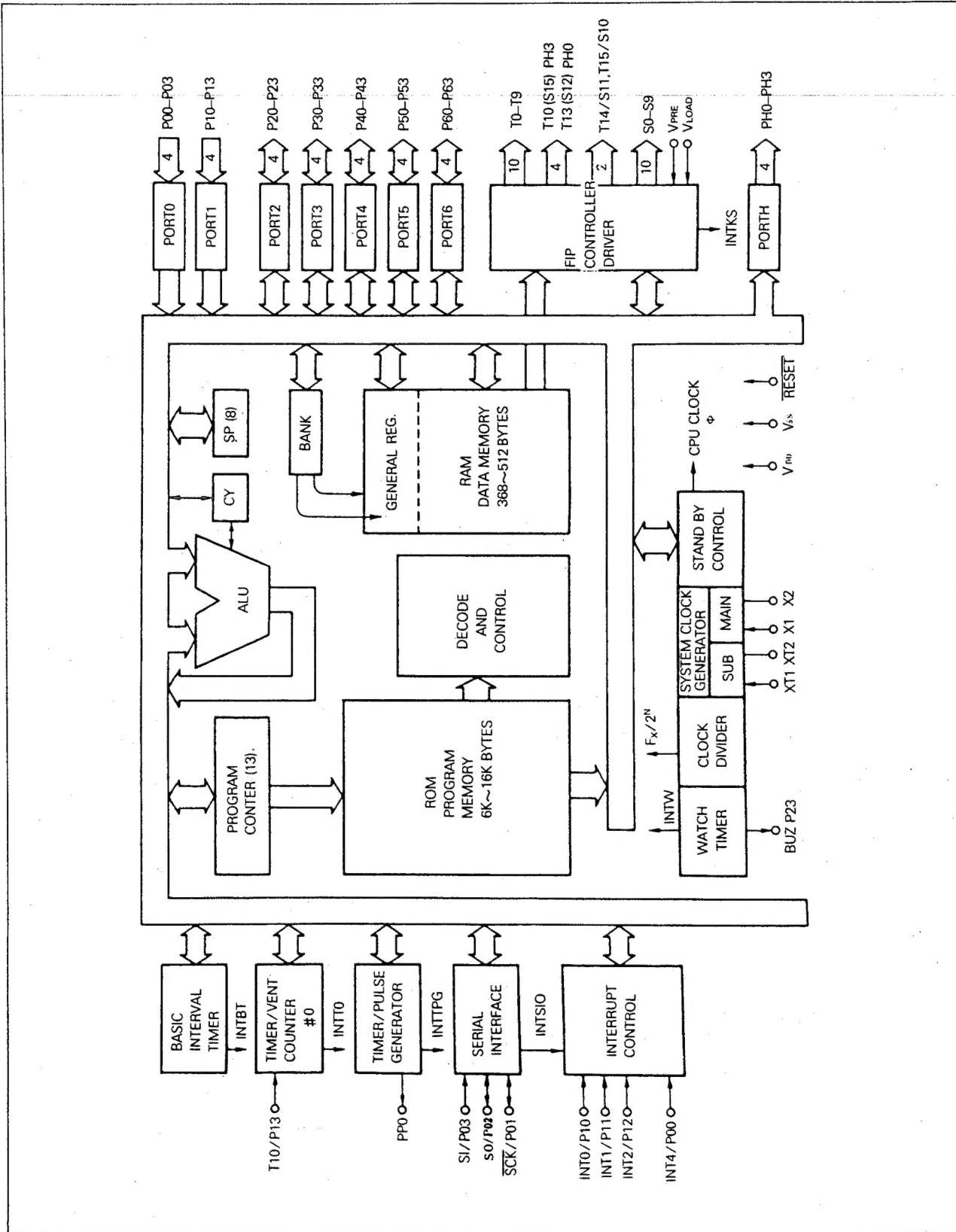
## 3-1. Pin Assignment



### 3-2. Functions Assigned

NO.	TERMINAL	OPERATING CHART	REMARKS	NO.	TERMINAL	OPERATING CHART	REMARKS
1	KEY MATRIX OUTPUT		S3	33	Nc		
2	KEY MATRIX OUTPUT		S2	34	Nc		
3	KEY MATRIX OUTPUT		S1	35	DOWN(VOL)		
4	KEY MATRIX OUTPUT		S0	36	UP(VOL)		
5	PROTECT		P01	37	DIRECT		
6	IRQ		P02	38	MUTE		
7	STEP CHANGE		P03	39	RESET		
8	STEP CHANGE		P04	40	T0		GRID
9	TUNED		P10	41	T1		GRID
10	SENSOR IN		P11	42	T2		GRID
11	STEREO IN		P12	43	T3		GRID
12	Nc		P13	44	T4		GRID
13	TUNER MUTE		P20	45	T5		GRID
14	STROBE	LC7821		46	T6		GRID
15	STROBE	MC14094		47	T7		GRID
16	STROBE (PLL)	LM7001		48	T8		GRID
17	RMC OUT			49	T9		GRID
18	STROBE	TC9176		50	S15		SEGMENT
19	STROBE	MC14094		51	S14		SEGMENT
20	DECK PAUSE			52	S13		SEGMENT
21	KEY MATRIX INPUT			53	S12		SEGMENT
22	KEY MATRIX INPUT			54	S11		SEGMENT
23	KEY MATRIX INPUT			55	S10		SEGMENT
24	KEY MATRIX INPUT			56	VLOAD		
25	CLOCK			57	VPRE		
26	DATA			58	S9		SEGMENT
27	STAND BY			59	S8		SEGMENT
28	VOL LED			60	S7		SEGMENT
29	Nc			61	S6		SEGMENT
30	X1	4.19MHz		62	S5		SEGMENT
31	X0	4.19MHz		63	S4		SEGMENT
32	Vss			64	VDD		+5V

## 3-3. Block Diagram

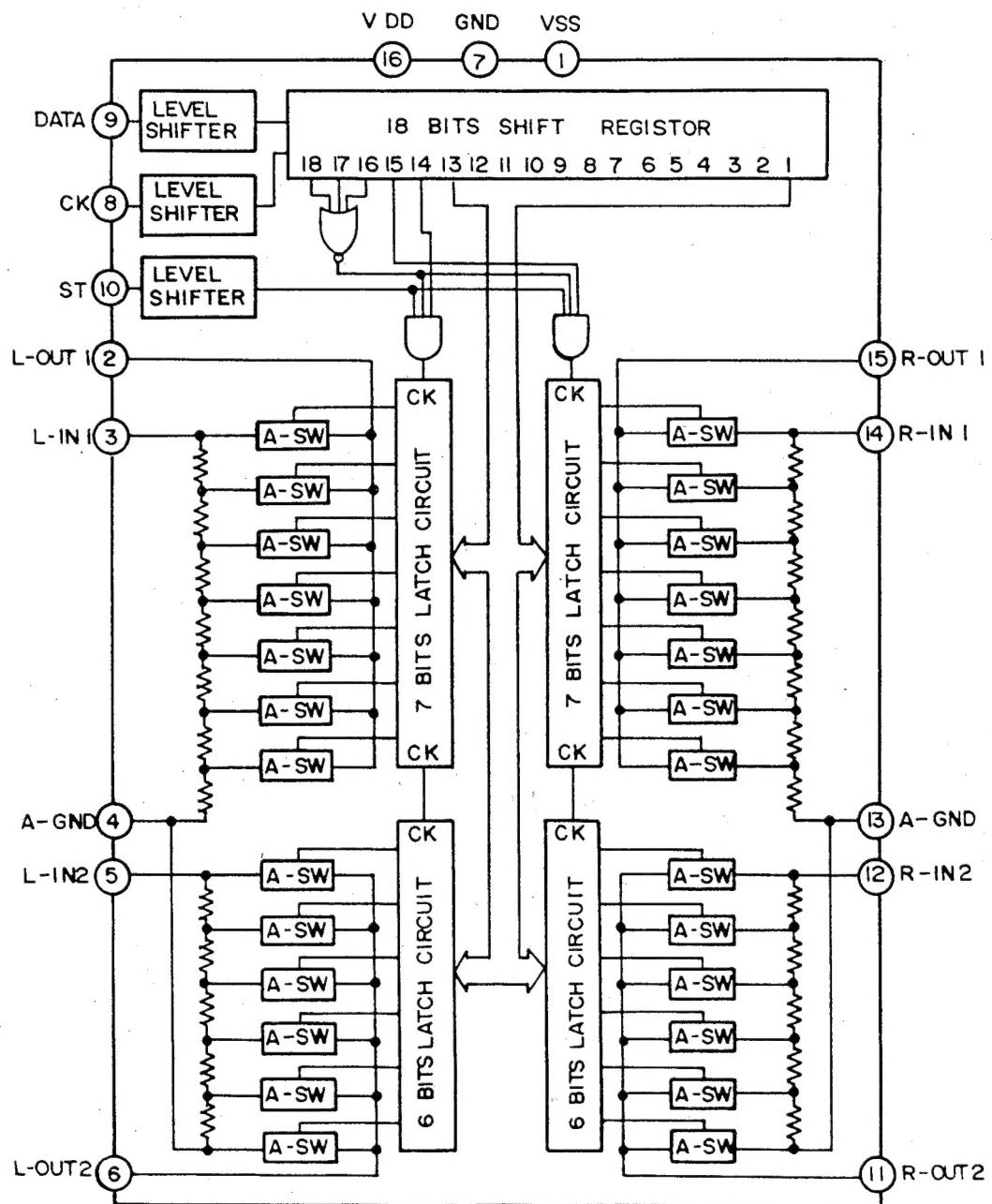
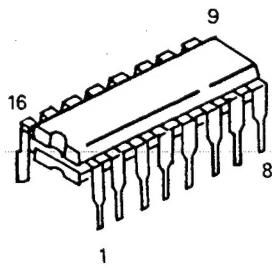


## 3-4. Key Matrix

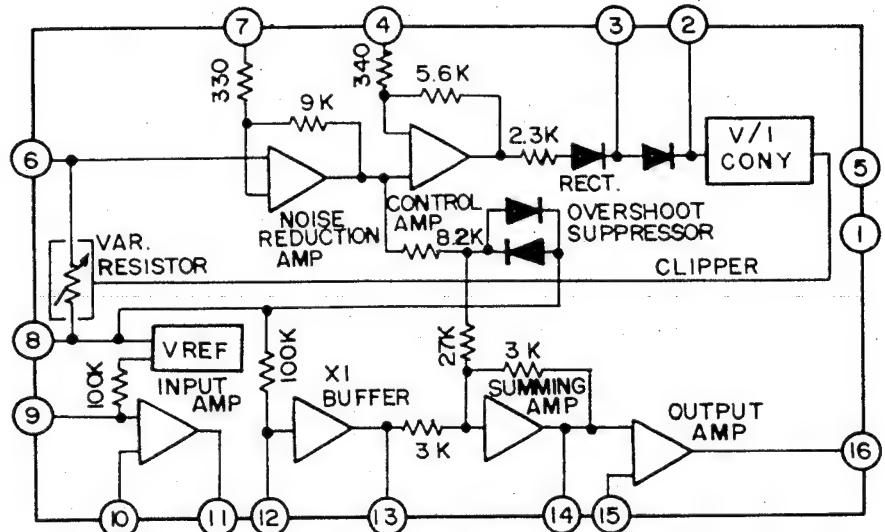
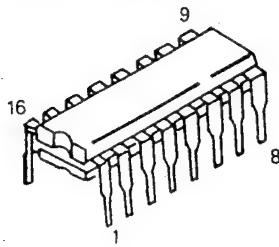
		Y	Y		S11
CENTER DOWN	CENTER UP	Y	Y	TEST TONE	Y
VDP	PRESET SCAN	Y	Y	AUTO/ MANUAL	Y
VCR 2	VCR 1 REC	Y	Y	SOURCE DIRECT	Y
VCR 1	THEATER	Y	Y	MEMORY	Y
TAPE 1	AM	Y	Y	DELAY TIME	Y
REAR UP	STADIUM	Y	Y	TUNE DOWN	Y
	SLEEP	Y	Y	REAR DOWN	Y
				DOLBY PRO LOGIC	Y
TAPE (2) MON	1	Y	TUNE UP	6	Y
PHONO	MUTE	Y	5	10	Y
CD	3	Y	4	9	Y
TUNER	2	Y	7	8	Y
	P63		P62	P61	P60

## 4. IC BLOCK DIAGRAMS

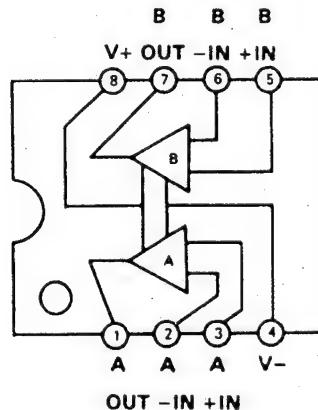
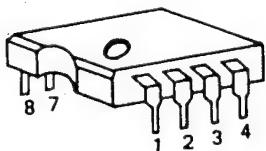
TC9176: IC712



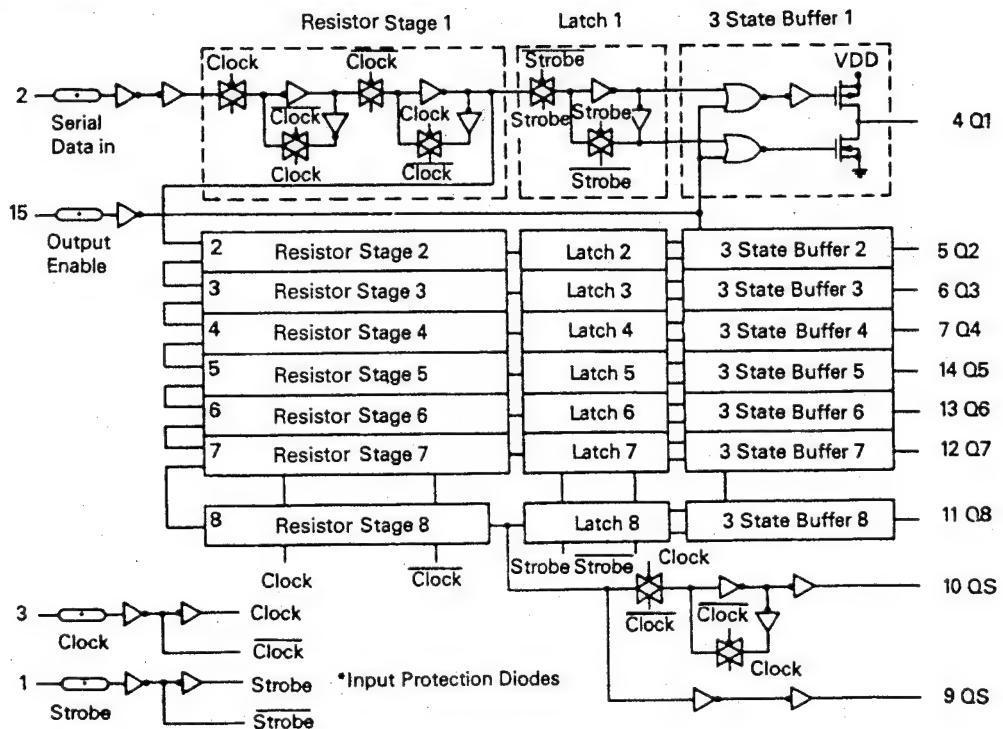
LA2730: IC710



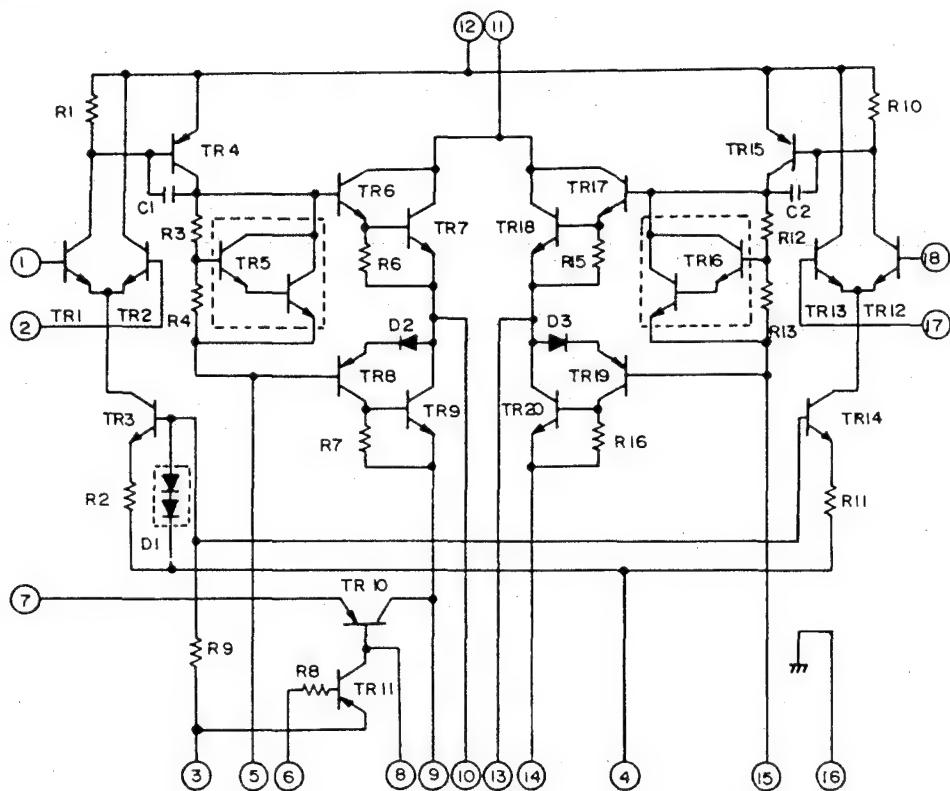
KIA4559P: IC201, IC207,  
IC702, IC703 IC701,  
IC709, IC711, IC713,  
IC401-IC403



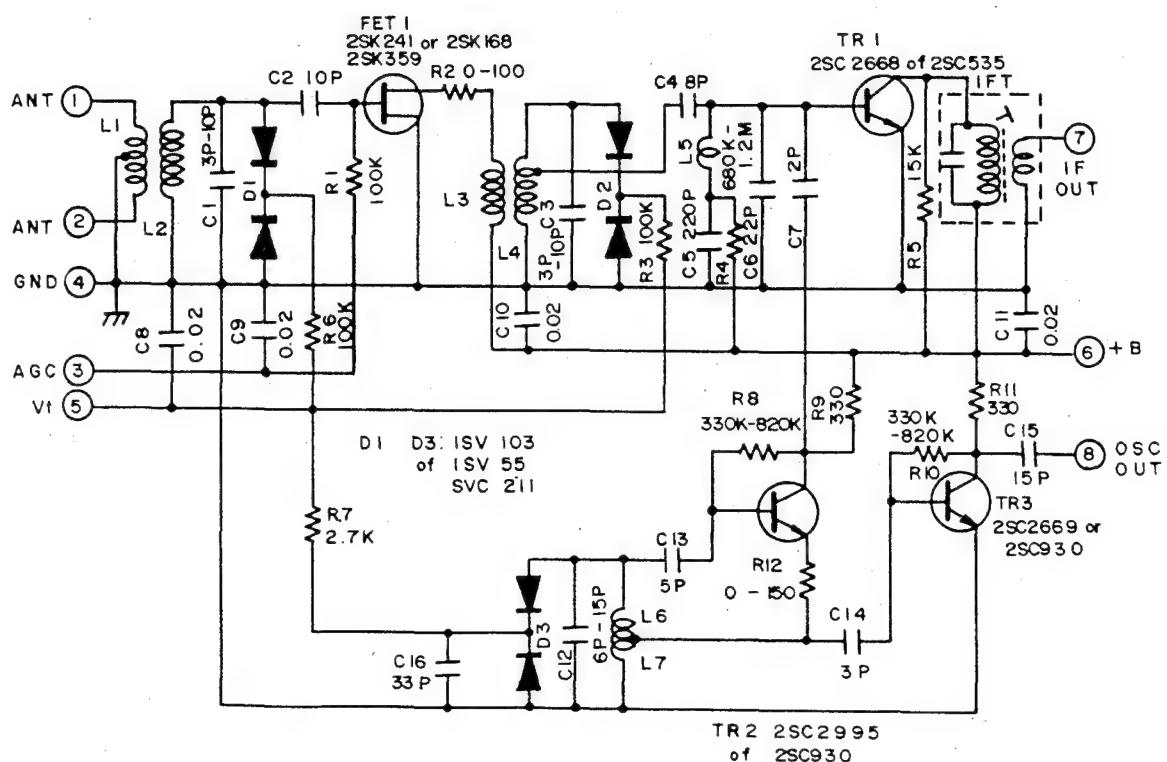
## MC 14094B : IC206, IC707, IC708



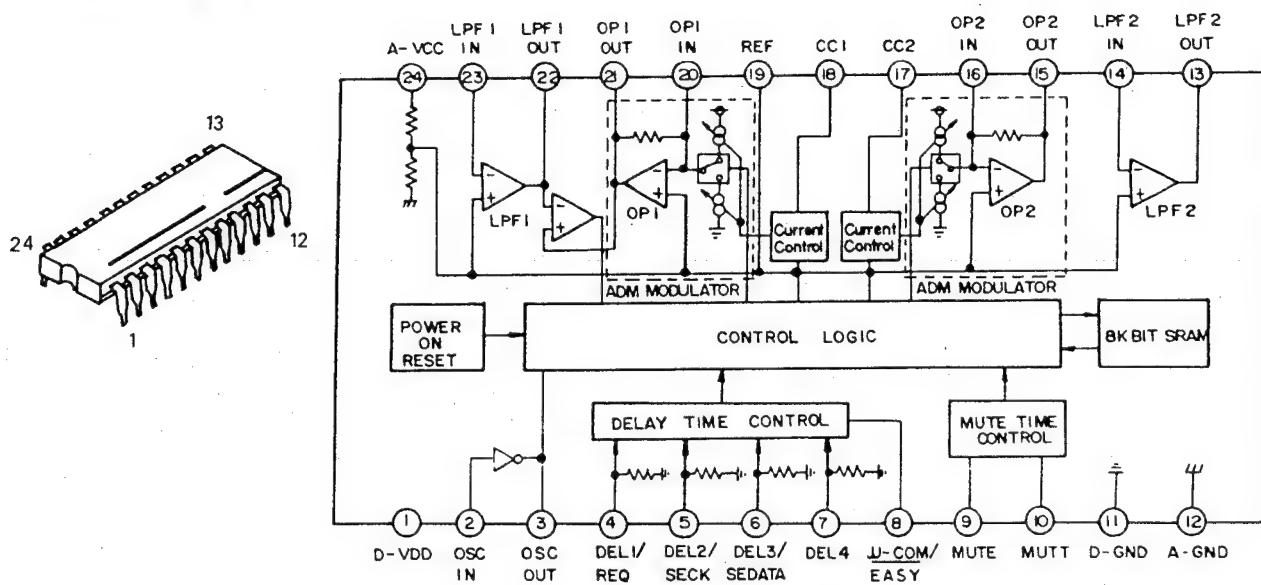
STK 4122 II: IC801



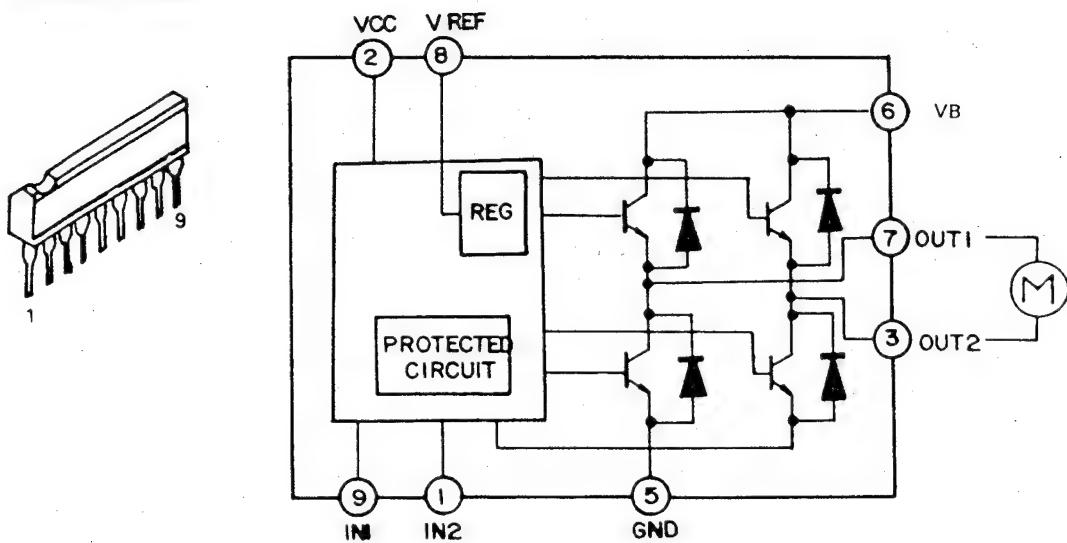
FRONT-END : FE 306-A15 FOR(USA/CANADA/GENERAL EXPORT) Version Only



M50198P: IC706

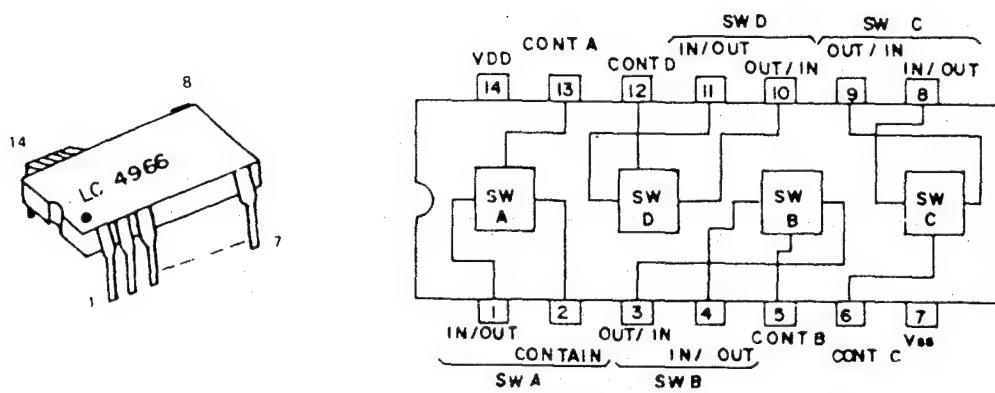


TA7291S: IC301

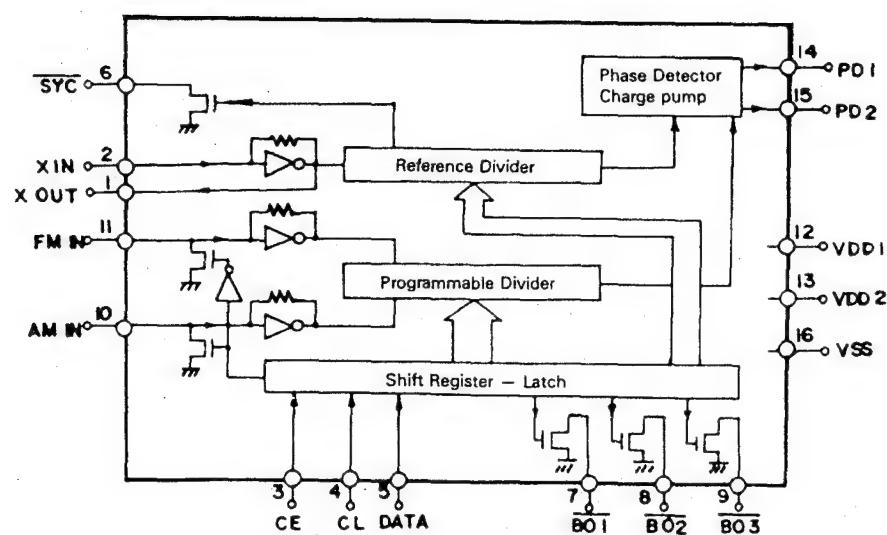


# AG-V3020

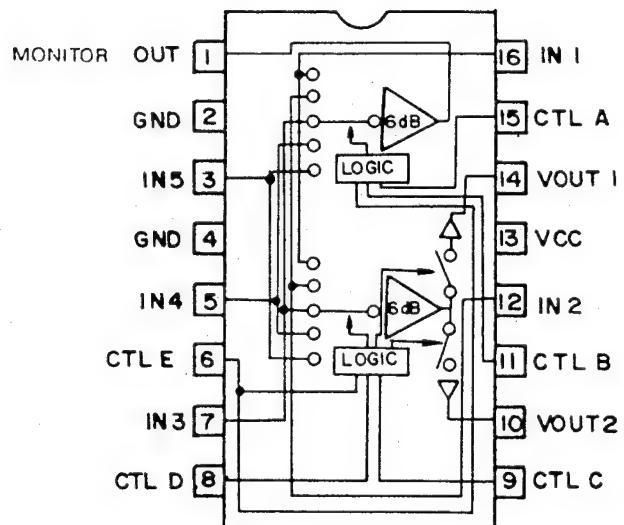
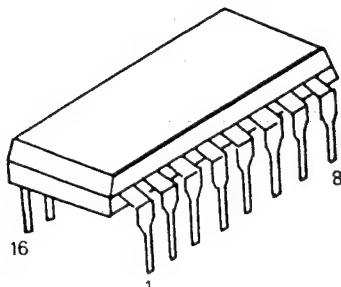
LC4966: IC704, IC705



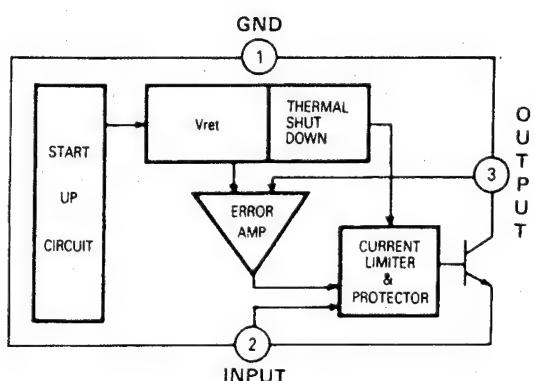
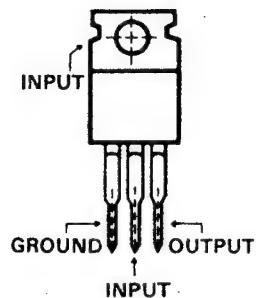
LM7001: IC103 (PLL IC)



BA7625: IC205

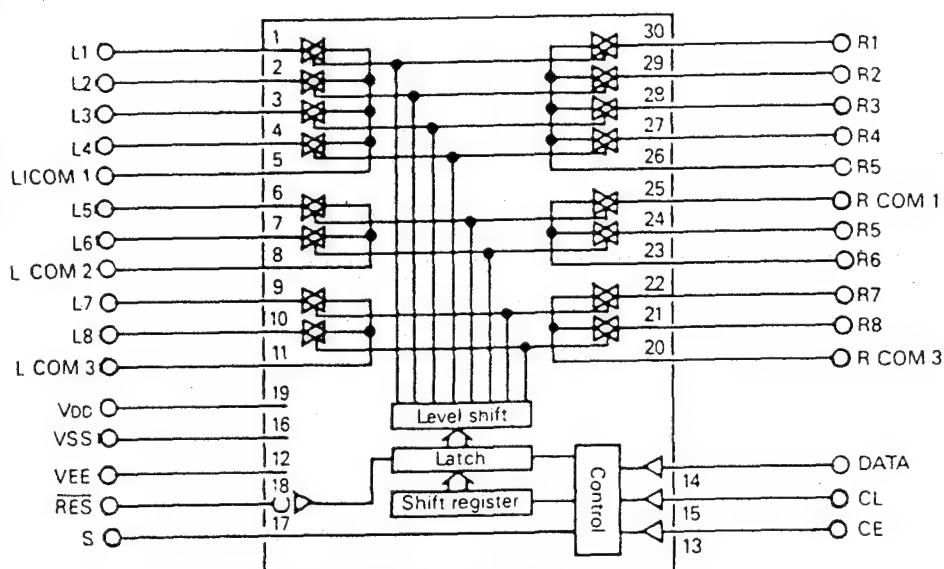
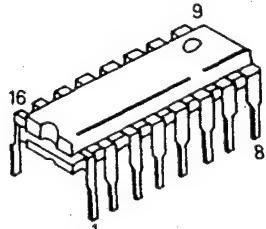


GL7915 : IC210

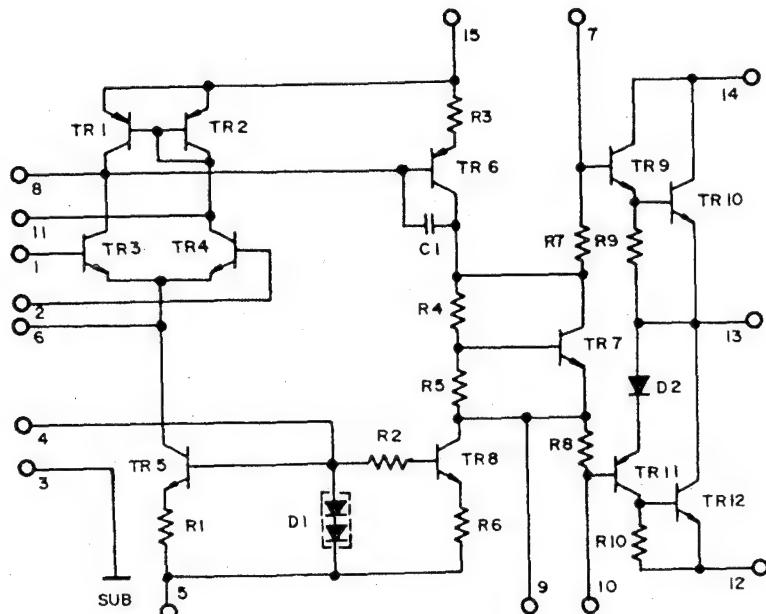
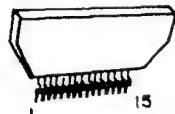


# AG-V3020

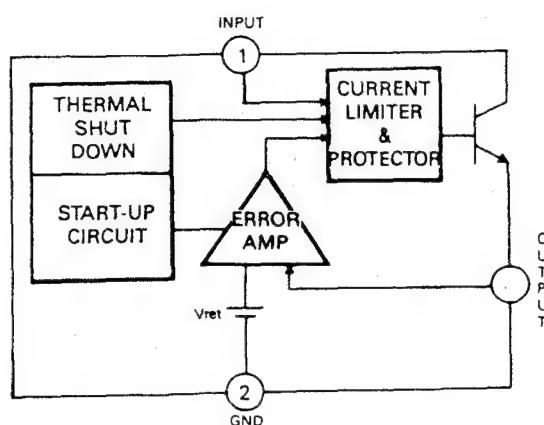
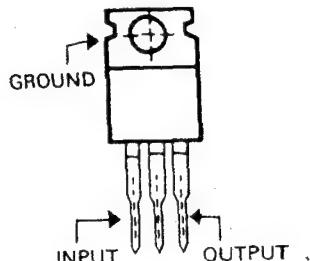
LC7821: IC203, IC204



STK4026 II : IC802



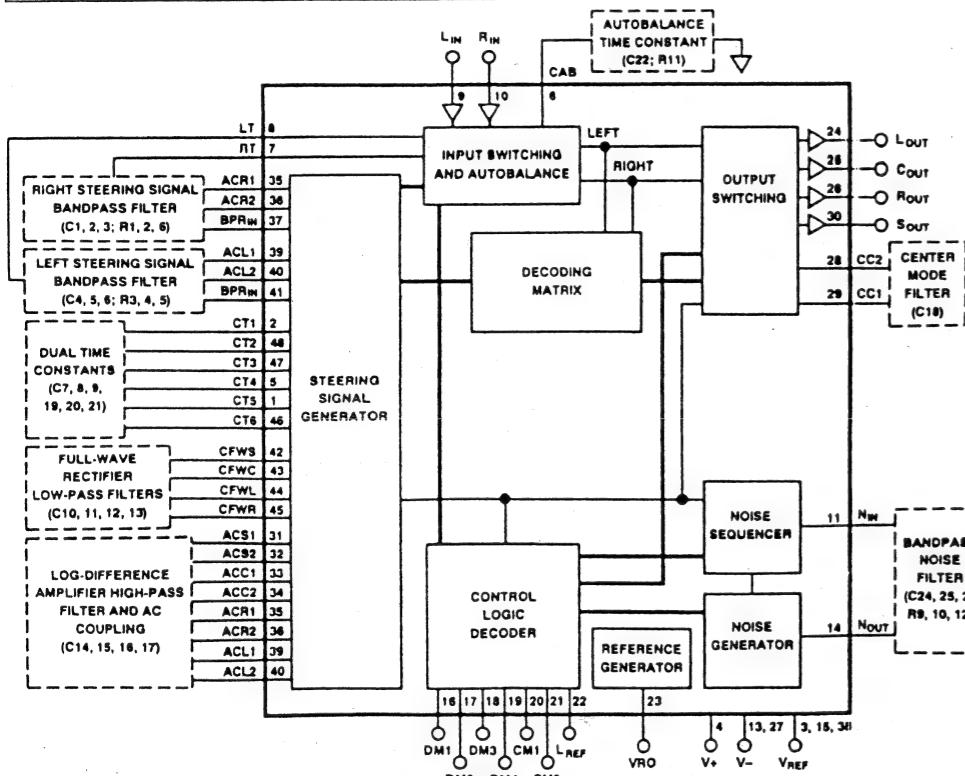
GL7805 : IC209  
GL7815 : IC211



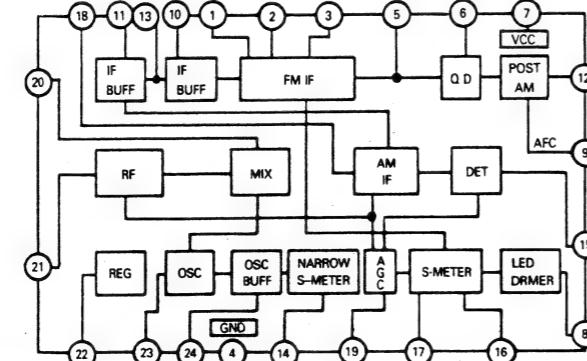
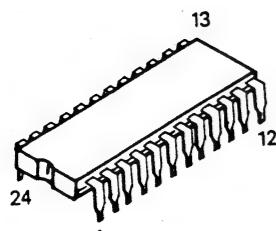
## SSM2126 : IC202

Table I. Control States for DM1-DM4

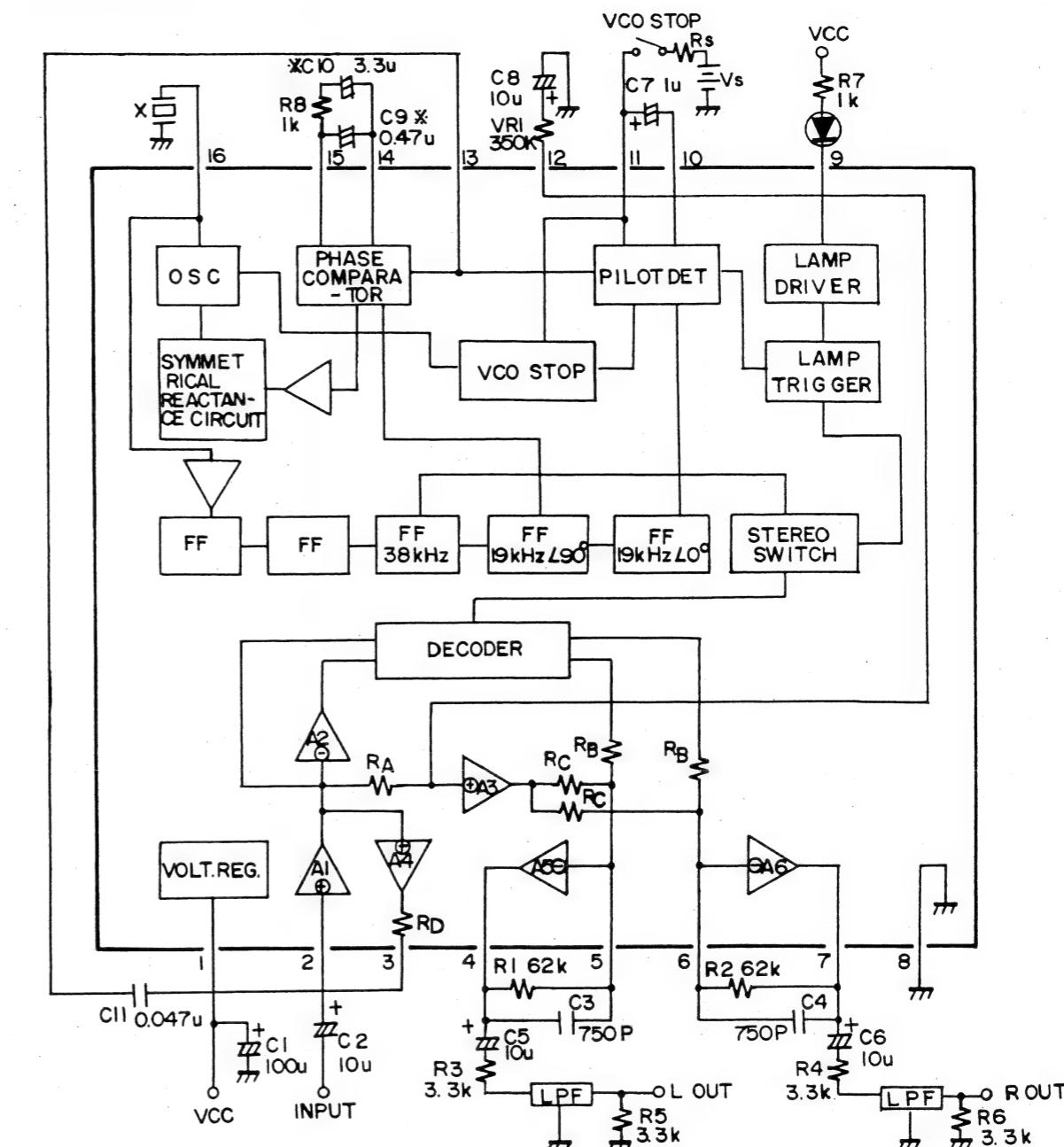
DM1	DM2	DM3	DM4	Operating State
1	1	1	1	Dolby 4-Channel ('Pro-Logic'), Autobalance On
1	1	0	1	Dolby 4-Channel ('Pro-Logic'), Autobalance Off
1	0	1	1	Dolby 3-Channel ('Dolby 3'), Autobalance On
1	0	0	1	Dolby 3-Channel ('Dolby 3'), Autobalance Off
0	1	1	1	Surround Channel Noise
0	1	1	0	Right Channel Noise
0	1	0	1	Center Channel Noise
0	1	0	0	Left Channel Noise
0	0	X	1	Mute
0	0	1	0	Stereo Bypass, Autobalance On
0	0	0	0	Stereo Bypass, Autobalance Off



## LA1266 : IC101

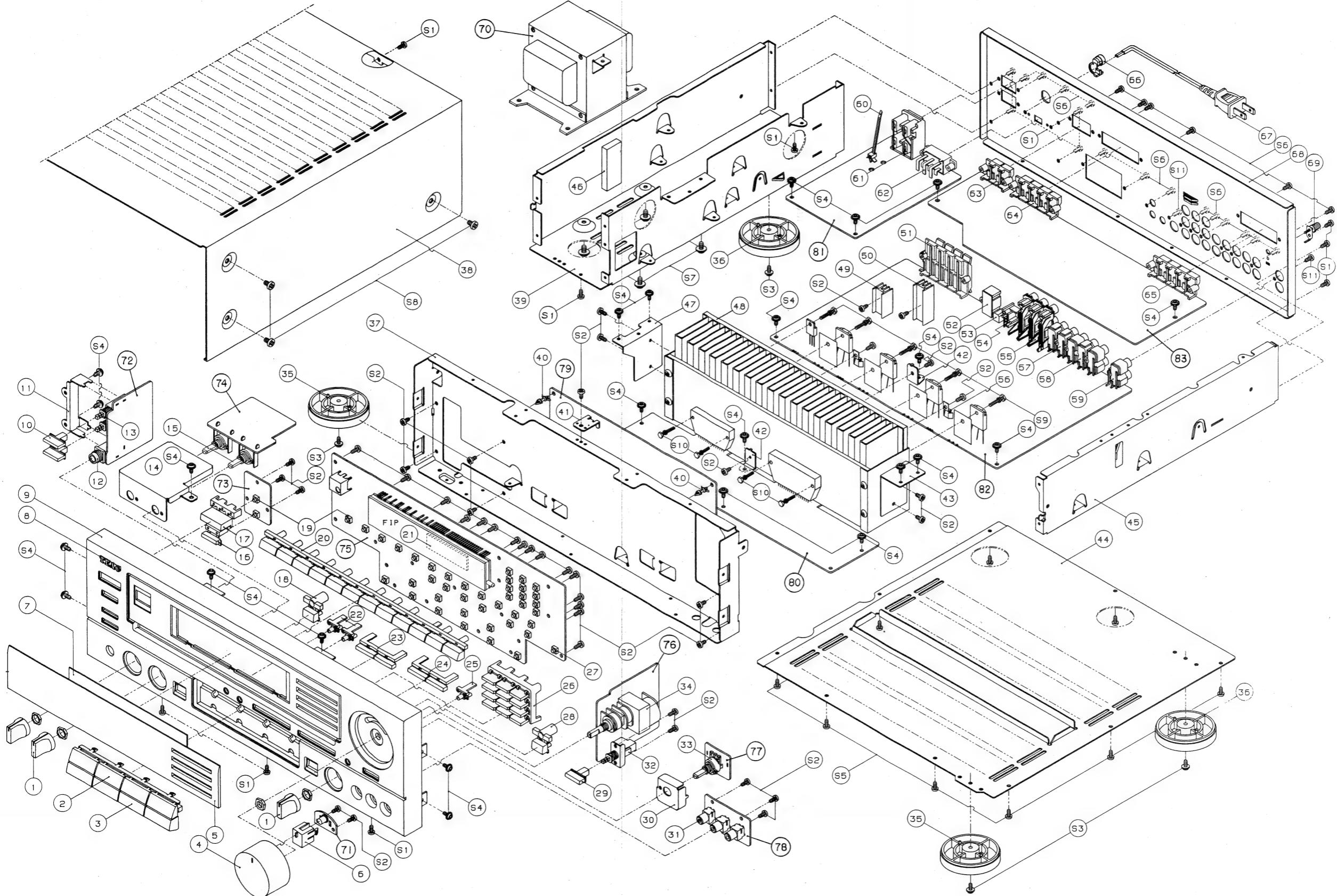


## LA3410 : IC102



## 5. EXPLODED VIEW AND PARTS LIST

This section is applicable to the U.S.A./Canada models.



REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1	9A04192300	KNOB, VR	
2	9A04196200	BUTTON, INPUT A	
3	9A04196300	BUTTON, INPUT B	
4	9A04192400	KNOB, MAIN	
5	*9A04195600	WINDOW, DISPLAY	
6	*9A04192500	INDICATOR	
7	*9A04195800	FILTER	
8	*9A04196000	BADGE	
9	*9A04195500	PANEL, FRONT	
10	9A04197300	BUTTON, SPEAKER	
11	*9A04229100	BRACKET, PCB SPK	
12	9A04228900	JACK, PHONE GOLD	
13	9A04229000	SW, SPUL19XIM07I	
14	*9A04197500	SHIELD FENCE, A	
15	9A04228100	VR, RK16KI2B0Z0114B	
16	9A04197200	BUTTON, SLEEP	
17	9A04197100	BUTTON, POWER	
18	9A04196900	BUTTON, RECORD	
19	9A04220300	SW, SKHV10910D01	
20	9A04196100	BUTTON, FUNCTION	
21	*9A04303300	SPONGE, FL EVA	
22	9A04196700	BUTTON, MODE	
23	9A04196500	BUTTON, AM/FM	
24	9A04196400	BUTTON, TUNING (BLACK)	
25	9A04196800	BUTTON, MUTING (GOLD)	
26	9A04196600	BUTTON, STATION (BLACK)	
27	9A04303400	SW, TACT	
28	9A04197000	BUTTON, DIRECT	
29	9A04197400	BUTTON, LOUDNESS	
30	*9A04210800	SHIELD FENCE, B	
31	9A04210400	JACK, RCA 1P	
32	9A04229900	SW, PUSH	
33	9A04210700	VR, RK16K118000114H	
34	9A04229600	VR, MOTOR 50KA*4	
35	9A04192100	FOOT, GOLD	
36	9A04192200	FOOT, BLACK	
37	*9A04193700	FRAME, FRONT	
38	*9A04191900	COVER, TOP	
39	*9A04193500	FRAME, LEFT	
40	*9A04193800	FASTENER, KGLS-4S	
41	*9A04193900	BRACKET, PCB	
42	*9A04198200	BRACKET, HEAT SINK	
43	*9A04197900	BRACKET, HEAT SINK R	
44	*9A04192000	COVER, BOTTOM	
45	*9A04193600	FRAME, R	
46	*9A04303500	SPONGE, EVA	
47	*9A04197800	BRACKET, HEAT SINK L	
48	*9A04197700	HEAT SINK, POWER	
49	*9A04202500	HEAT SINK, REG TR	
50	*9A04202600	HEAT SINK, REG TR	
51	9A04200700	TERMINAL, SPEAKER	
52	9A04202100	JACK, LGA6502-0150	
53	9A04202000	JACK, LGY6501-0600	
54	9A04201900	JACK, RCA 1P	
55	9A04201800	JACK, RCA 3P	

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
56	*9A04198300	SPRING HOLDER, STA2170	
57	9A04201600	JACK, RCA 6P	
58	9A04201500	JACK, RCA 4P	
59	9A04201700	JACK, RCA 2P	
60	*9A04303600	LOCKING TIE, NYLON	
61	△ *9A04227200	AC OUTLET, CCT1304-0212	
62	△ 9A04227300	SW, SDKG4343B (SW601)	
63	9A04213900	TERMINAL, SPEAKER 2P	
64	9A04213800	TERMINAL, PUSH 4P	
65	9A04213700	TERMINAL, PUSH 4P	
66	△ *9A04194300	CORD, STOPPER	
67	△ 9A04194200	AC CORD, EHD-0008-266P	
68	*9A04194000	CHASSIS, BACK	
69	9A04194100	TERMINAL, GND	
70	△ 9A04195200	POWER TRANS. (TRANS601)	
71	*9A04210900	LED PCB ASSY	
72	*9A04228700	HEADPHONE PCB ASSY	
73	*9A04220400	POWER SW PCB ASSY	
74	*9A04228000	TONE PCB ASSY	
75	*9A04218000	FRONT PCB ASSY	
76	*9A04229400	VOLUME PCB ASSY	
77	*9A04210600	BALANCE PCB ASSY	
78	*9A04210100	VCR 2 PCB ASSY	
79	*9A04223300	SURROUND PCB ASSY	
80	*9A04220800	BOTTOM PCB ASSY	
81	*9A04226300	POWER PCB ASSY	
82	*9A04199000	MAIN PCB ASSY	
83	*9A04211400	TUNER PCB ASSY	
S1	*9A04192700	SCREW, #2BTC3X8B	
S2	*9A04192700	SCREW, #2BTC3X8B	
S3	*9A04192900	SCREW, #2WPTC3X8Y	
S4	*9A04192900	SCREW, #2WPTC3X8Y	
S5	*9A04192800	SCREW, #2BTC3X6B	
S6	*9A04194500	SCREW, #1PT3X10B	
S7	*9A04303700	SCREW, WSAM M4*8Y	
S8	*9A04303800	SCREW, BSAM M4*8B	
S9	*9A04198000	HEX MSPW 3X12Y	
S10	*9A04198100	HEX MSPW 3X16(Y)	
SII	*9A04194400	SCREW, G.N.D.	

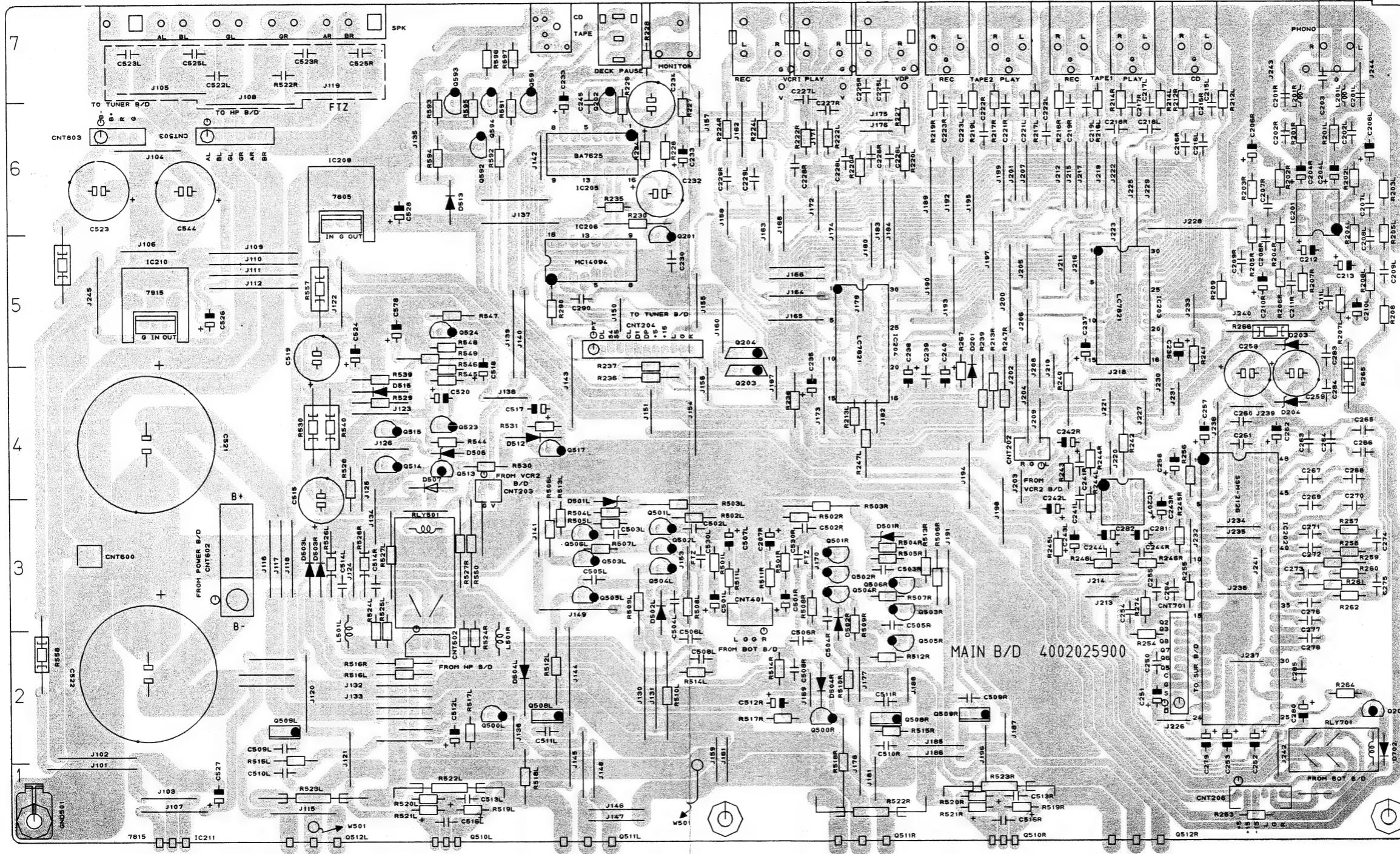
## INCLUDED ACCESSORIES

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	*9A04324100	ANTENNA, AM LOOP	
	*9A04326200	ANTENNA, FM 300 OHMS	
	*9A04191500	REMOCOM UNIT, UR-404	
	9A04328200	BATTERRY (AA, R06, SUM-3)	
	*9A04151100	AG-V3020 OWNER'S MANUAL (E/F)	

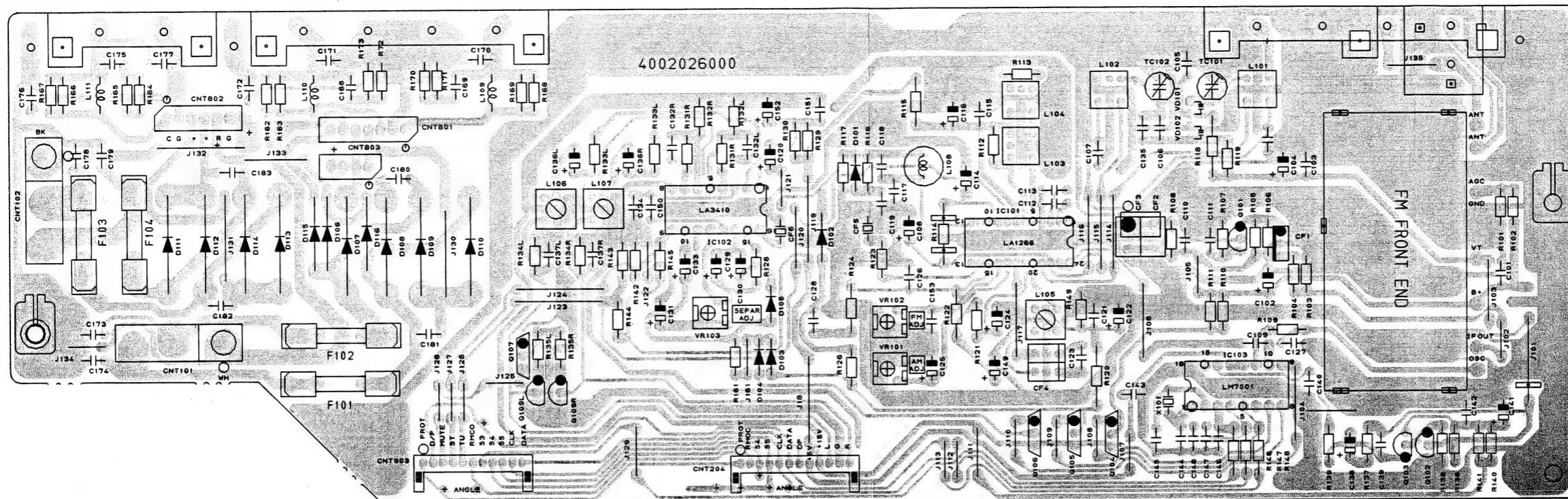
## 6. PC BOARDS AND PARTS LIS

This section is applicable to the U.S.A./Canada models.

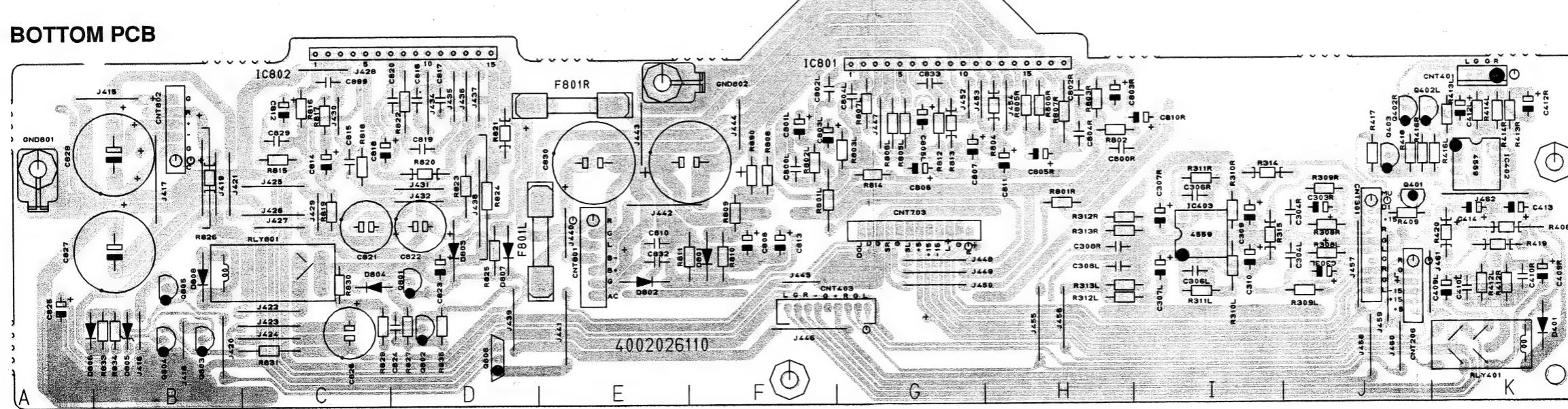
## MAIN PCB



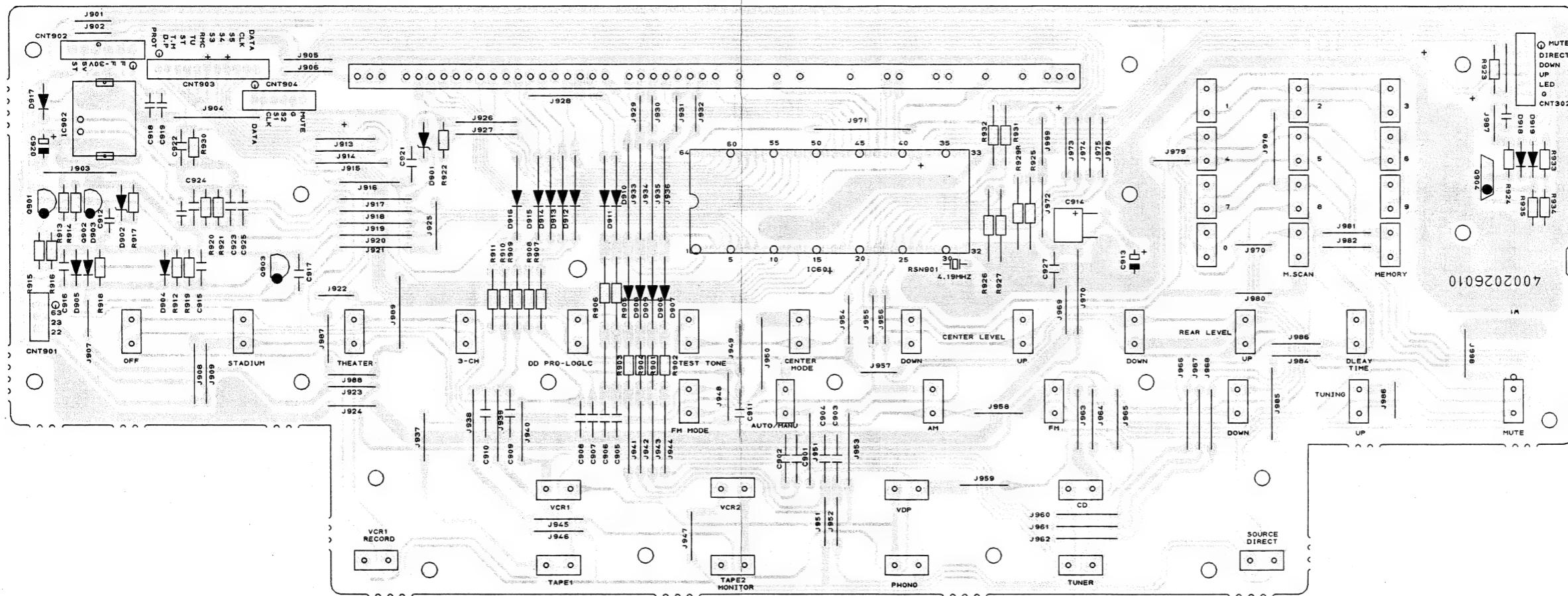
## TUNER PCB



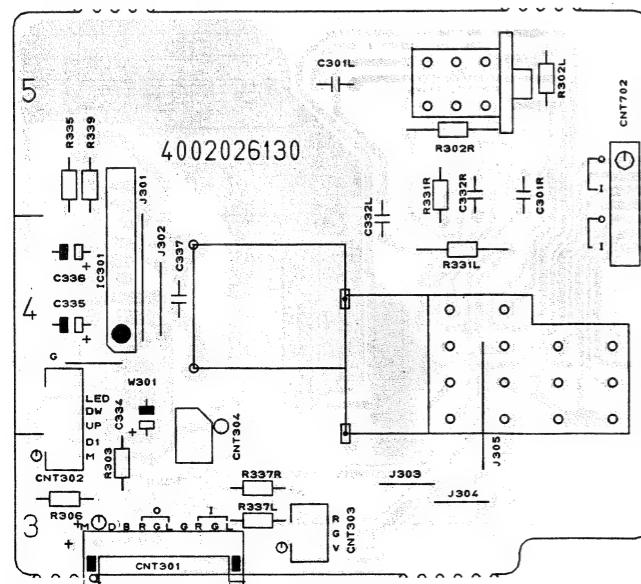
### **BOTTOM PCB**



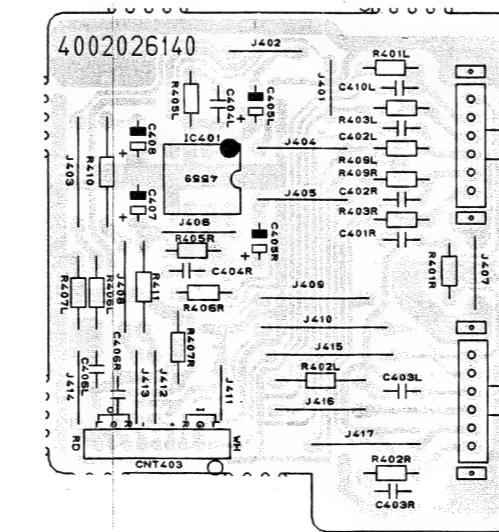
FRONT PCB



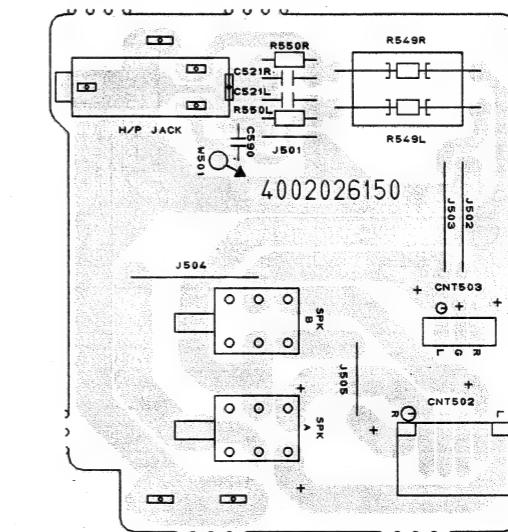
VOLUME PCB



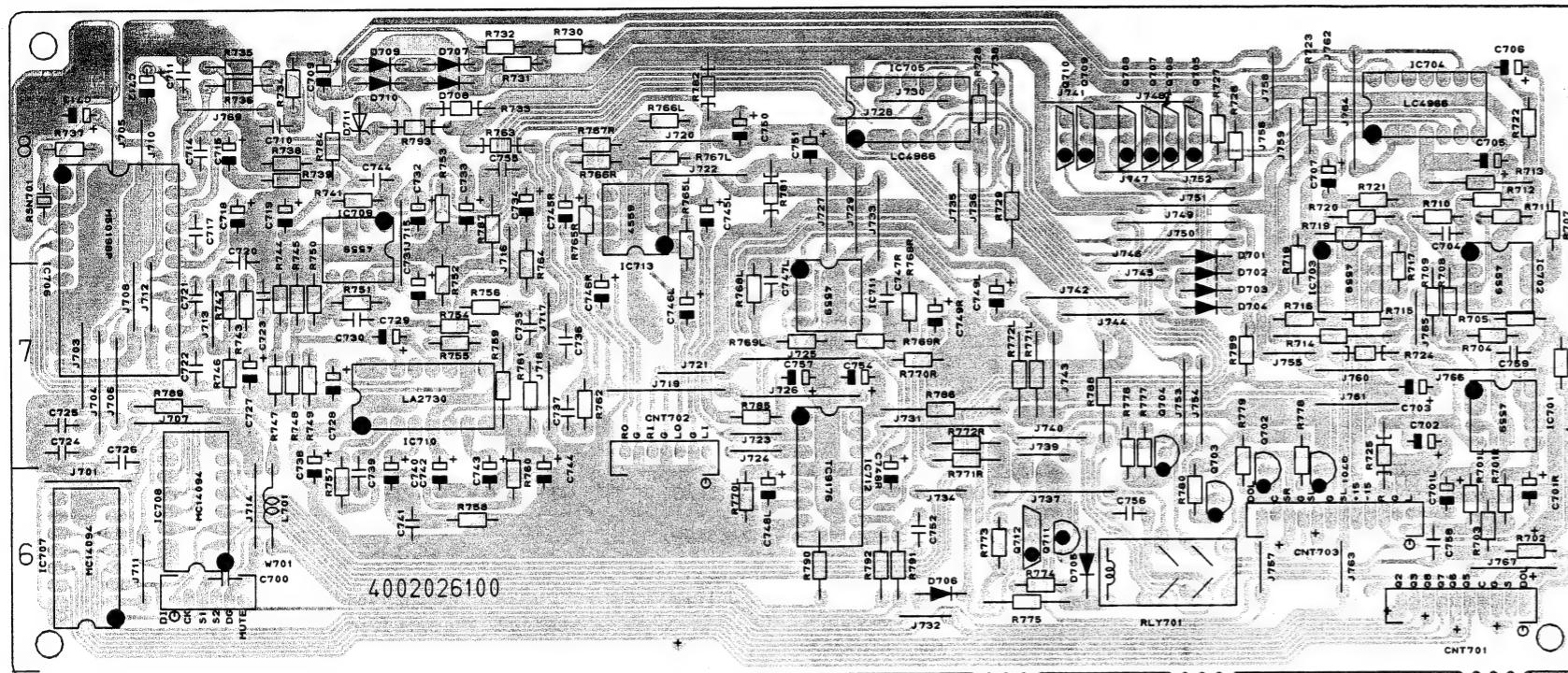
TONE PCE



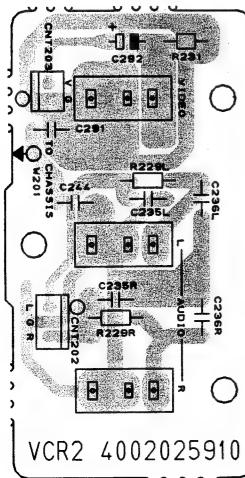
HEADPHONE PCB



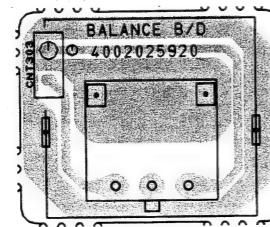
## **SURROUND PCB**



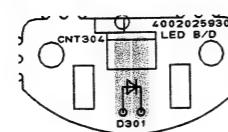
VCR2 PCB



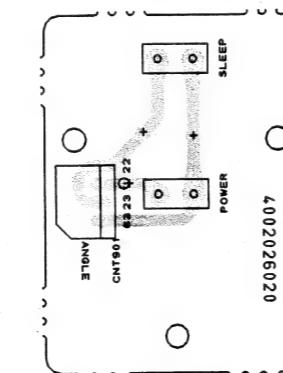
BALANCE PCB



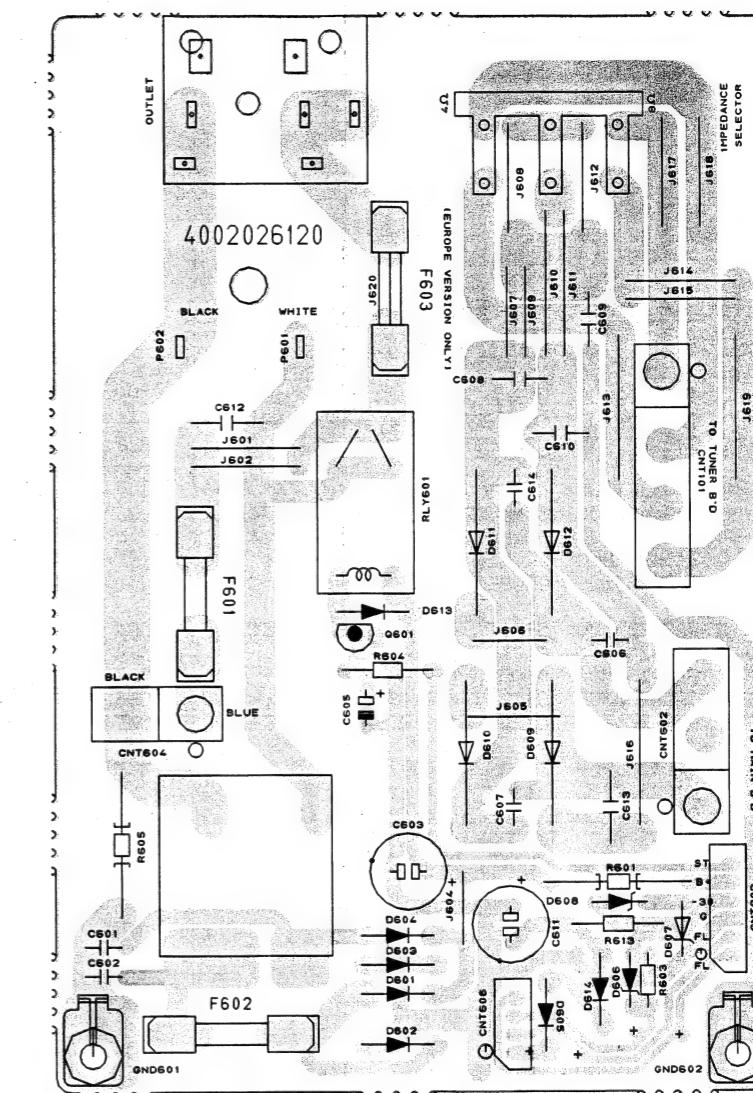
LED PCE



POWER SW PCE



POWER PCE



## MAIN PCB ASSY

## REF. NO. PARTS NO. DESCRIPTION

*9A04199000	MAIN PCB ASSY
*9A04202500	HEAT SINK, REG TR
*9A04202600	HEAT SINK, REG TR
9A04200700	TERMINAL, SPEAKER
9A04202100	JACK, LGA6502-0150
9A04202000	JACK, LGY6501-0600
9A04201900	JACK, RCA IP
9A04201800	JACK, RCA 3P
9A04201600	JACK, RCA 6P
9A04201500	JACK, RCA 4P
9A04201700	JACK, RCA 2P
C543,544	△ 9A04221300 C, E SG 1000UF/35V M CV
CNT202	9A04201000 CONN., 3P GIL-S-3P-S2T2-EF
CNT203	9A04200900 CONN., 2P GIL-S-2P-S2T2-EF
CNT204	9A04304200 CONNECTOR ASSY, 12P 100MM
CNT206	9A04201200 CONN., 6P GIL-S-6P-S2T2-EF
CNT404	9A04201100 CONN., 4P GIL-S-4P-S2T2-EF
CNT502	9A04200800 CONNECTOR PLUG, 3P
CNT503	9A04304400 CONNECTOR ASSY, 6P 400MM
CNT600	9A04201400 CONNECTOR, AC IP
CNT602	9A04201300 CONNECTOR, AC 3P
CNT701	9A04304500 CONNECTOR ASSY, 10P 300MM
CNT803	9A04304600 CONNECTOR ASSY, 4P 200MM
D201	9A04202800 DIODE, IN4148M
D203,204	9A04203600 DIODE, ZENER UZ 6.2BSB
D501L/R	9A04203800 DIODE, ZENER UZ 12.0BSC
D502L/R	9A04202800 DIODE, IN4148M
D503L/R	9A04202800 DIODE, IN4148M
D504L/R	9A04202800 DIODE, IN4148M
D506	9A04203700 DIODE, ZENER UZ 15.0BSC
D507	9A04203500 DIODE, IN4002
D512	9A04202800 DIODE, IN4148M
D513	9A04202800 DIODE, IN4148M
D515	9A04202800 DIODE, IN4148M
GND501	9A04305300 PLATE, GROUND IP
IC201	9A04199800 IC, KIA75559P (KIA4559P)
IC202	9A04199500 IC, SSM2126
IC203	9A04199600 IC, LC7821
IC204	9A04199600 IC, LC7821
IC205	9A04304700 IC, BA7625
IC206	9A04199400 IC, MC14094
IC207	9A04199800 IC, KIA75559P (KIA4559P)
IC209	△ 9A04199900 IC, GD7805
IC210	△ 9A04200000 IC, GL7915GS
IC211	△ 9A04198500 IC, GD7815
L501L/R	9A04200100 COIL INDUCTOR, 0.5MH
Q201,202	9A04221900 TR, KTA1015Y
Q203,204	9A04203400 TR, DTC114YS
Q205	9A04198400 TR, MPSA06
Q500L/R	9A04203000 TR, KTC1815Y
Q501L/R	9A04203300 TR, KTC2240BL
Q502L/R	9A04203300 TR, KTC2240BL
Q503L/R	9A04203000 TR, KTC1815Y
Q504L/R	9A04221900 TR, KTA1015Y
Q505L/R	9A04202900 TR, BKTA949Y
Q506L/R	9A04203200 TR, KTC2229Y
Q508L/R	9A04199300 TR, KSD401Y
Q509L/R	9A04199200 TR, KSB546Y
Q510L/R	9A04198400 TR, MPSA06
Q511L/R	△ 9A04198600 TR, 2SC3855

Q512L/R △ 9A04198700 TR, 2SA1491  
 Q513 9A04198400 TR, MPSA06  
 Q514,515 9A04203000 TR, KTC1815Y  
 Q517 9A04203000 TR, KTC1815Y  
 Q523 9A04221900 TR, KTA1015Y

Q524 9A04203000 TR, KTC1815Y  
 Q591-594 9A04203000 TR, KTC1815Y  
 R265,266 9A04304900 R, MF 1W 180 J  
 R522L/R △ 9A04200400 R, CEMENT 5W 0.39  
 R523L/R △ 9A04200400 R, CEMENT 5W 0.39

R526L/R △ 9A04200200 R, MF 1W 10 J  
 R530 △ 9A04204100 R, MF 1W 22 J  
 R540 △ 9A04305100 R, MF 1W 2.2 J  
 R557 △ 9A04305200 R, MF 2W 47 J  
 R558 △ 9A04204300 R, MF 1W 3.3 J

R559 △ 9A04200200 R, MF 1W 10 J

RLY501 9A04202400 RELAY, OSA-SS-224DM5

RLY701 9A04202300 RELAY, RZ12

## TUNER PCB ASSY

## REF. NO. PARTS NO. DESCRIPTION

\*9A04211400 TUNER PCB ASSY  
 9A04217900 FUSE CLIP, PFC5000-0202  
 9A04213900 TERMINAL, SPEAKER 2P  
 9A04213800 TERMINAL, PUSH 4P  
 9A04213700 TERMINAL, PUSH 4P

CF1 9A04213300 FILTER, C SFE10.7MA8  
 CF4 9A04213200 FILTER, C SFZ450B  
 CF5 9A04326000 RESONATOR, BFU450C4N  
 CF6 9A04213600 RESONATOR, CSB456FII  
 CNT101 9A04201300 CONNECTOR, AC 3P

CNT204 9A04214400 CNT, GIL-12P-S2L2-EF  
 CNT801 9A04200800 CONNECTOR PLUG, 3P  
 CNT802 9A04214200 CONNECTOR PLUG, 6P  
 CNT803 9A04214100 CONNEC. PLUG, 4P (5267-04A)  
 CNT903 9A04214300 CNT, GIL-11P-S2L2-EF

DI01-105 9A04202800 DIODE, IN4148M  
 DI06 9A04203500 DIODE, IN4002  
 DI07-114 △ 9A04211500 DIODE, IN5402  
 DI15/116 9A04203500 DIODE, IN4002  
 F101/102 △ 9A04194700 FUSE, SB 20 3.5A 125V

F103/104 △ 9A04194600 FUSE, 51S 125V 3A (UL/C)  
 FE101 9A04213500 FM, FE306-A15  
 IC101 9A04211800 IC, LA1266  
 IC102 9A04211900 IC, LA3410  
 IC103 9A04211700 IC, LM7001

L101 9A04212000 COIL, AM ANT  
 L102 9A04212100 COIL, AM OSC  
 L103 9A04212300 COIL, FM QUAD DET (A)  
 L104 9A04212400 COIL, QUAD DET(B) FM TOKO  
 L105 9A04212500 COIL, AM IFT P-7SB

L106/107 9A04212200 COIL, MPX 19KHZ FB-7SG  
 L109-111 9A04200100 COIL INDUCTOR, 0.5MH  
 Q101 9A04214800 TR, KTC1923Y TAPING  
 Q102 9A04203300 TR, KTC2240BL  
 Q103 9A04214600 FET, N-CH 2SK168D

Q104-107 9A04214700 TR, DTA114YS  
 Q109L/R 9A04203000 TR, KTC1815Y  
 TC101 9A04213000 C, TRIMMER TZ03-R200FR 169  
 TC102 9A04212900 C, TRIMMER TZ03-T110FR 169  
 VD101/102 9A04211600 DIODE, VARACTOR KVI236Z

VR101 9A04216400 R, SEMI EVN-DJAA03B54  
 VR103 9A04216300 R, SEMI 220K  
 XI01 9A04213400 X'TAL, 7.200MHZ

## BOTTOM PCB ASSY

## REF. NO. PARTS NO. DESCRIPTION

\*9A04220800 BOTTOM PCB ASSY  
 9A04217900 FUSE CLIP, PFC5000-0202  
 C827/828 △ 9A04324800 C, E SG 2200UF/35V M  
 C830/831 △ 9A04221400 C, E SG 2200UF/35V CV  
 CNT206 9A04326800 CONNECTOR ASSY, 6P 260MM

CNT301 9A04327000 CONNECTOR ASSY, 10P 160MM  
 CNT401 9A04326700 CONNECTOR ASSY, 4P 350MM  
 CNT403 9A04327500 CONN., 9P GIL-S-9P-S2T2-EF  
 CNT703 9A04327200 CONNECTOR ASSY, 12P 120MM  
 CNT801 9A04326500 CONNECTOR ASSY, 7P 450MM

CNT802 9A04304400 CONNECTOR ASSY, 6P 400MM  
 D401 9A04202800 DIODE, IN4148M  
 D801/802 9A04203500 DIODE, IN4002  
 D803/804 9A04202800 DIODE, IN4148M  
 D805 9A04203700 DIODE, ZENER UZ 15.0BSC

D806/807 9A04202800 DIODE, IN4148M  
 D808 9A04203500 DIODE, IN4002  
 F801L/R △ 9A04194800 FUSE, 51M 125V 3A (UL/C)  
 GND801 9A04305300 GROUND PLATE, IP  
 IC402,403 9A04199800 IC, KIA75559P (KIA4559P)

IC801 △ 9A04220900 IC, HYBRID STK4122MK2  
 IC802 △ 9A04221000 IC, HYBRID STK4026(11)  
 Q401 9A04198400 TR, MPSA06  
 Q402L/R 9A04214900 TR, KTDI302B  
 Q801 9A04203000 TR, KTC1815Y

Q806 9A04203400 TR, DTC114YS  
 R804 △ 9A04324300 R, CF 1/4W 10 J  
 R820/821 △ 9A04219200 R, CF 1/4W 100 J  
 R824 △ 9A04221200 R, WW CE 3W 0.27 K S  
 R826 9A04221100 R, MF 1W 47 J

RLY401 9A04202300 RELAY, RZ12  
 RLY801 9A04221700 RELAY, OSA-SS-224DM3

## FRONT PCB ASSY

## REF. NO. PARTS NO. DESCRIPTION

\*9A04218000 FRONT PCB ASSY  
 9A04220300 SW, SKHV1910D01  
 9A04303400 SW, TACT

C914 △ 9A04218400 C, E SA 0.047UF/5.5V J  
 CNT302 9A04218600 CONNECTOR ASSY, 6P 120MM

CNT901 9A04326300 CONNECTOR ASSY, 3P 100MM  
 CNT902 9A04326400 CONNECTOR ASSY, 6P 300MM  
 CNT903 9A04327100 CONNECTOR ASSY, 11P 400MM  
 CNT904 9A04218600 CONNECTOR ASSY, 6P 120MM  
 D901 9A04219100 DIODE, ZENER UZ 9.1BSC

D902 9A04219000 DIODE, ZENER UZ 5.1BSB  
 D903-917 9A04202800 DIODE, IN4148M  
 F1P901 9A04218200 FL TUBE F1P 12 LM 8  
 IC901 9A04218100 IC, UPD75216ACW-W42  
 IC902 △ 9A04218300 REMOTE SENSOR, KRM-34L1

Q901 9A04218800 TR, PNP KTA817A KEC  
 Q902/903 9A04203000 TR, KTC1815Y  
 RSN901 9A04326100 RESONATOR, 4.19MHZ

## VOLUME PCB ASSY

## REF. NO. PARTS NO. DESCRIPTION

\*9A04229400 VOLUME PCB ASSY  
 9A04229900 SW, PUSH  
 9A04229600 VR, MOTOR 50KA\*4  
 CNT301 9A04229800 CONNECTOR, GIL-10P-S2L2-EF  
 CNT302 9A04201200 CONN., 6P GIL-S-6P-S2T2-EF  
 CNT303 9A04201000 CONN., 3P GIL-S-3P-S2T2-EF  
 CNT304 9A04229700 CONNECTOR PLUG, 2P  
 CNT702 9A04326900 CONNECTOR ASSY, 7P 300MM  
 IC301 9A04229500 IC, TA7291S

## TONE PCB ASSY

## REF. NO. PARTS NO. DESCRIPTION

\*9A04228000 TONE PCB ASSY  
 9A04228100 VR, RK16K12BOZ0114B  
 CNT403 9A04228200 CONNECTOR ASSY, 9P 200MM  
 IC401 9A04199800 IC, KIA75559P (KIA4559P)

## HEADPHONE PCB ASSY

## REF. NO. PARTS NO. DESCRIPTION

\*9A04228700 HEADPHONE PCB ASSY  
 9A04229100 BRACKET, PCB SPK  
 9A04228900 JACK, PHONE GOLD  
 9A04229000 SW, SPULI9X1M07I  
 CNT502 9A04326600 CONNECTOR ASSY, 3P 350MM<br

Q712 9A04203400 TR, DTC114YS  
 RSN701 9A04223800 RESONATOR, CST3.27MGW

## POWER PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*9A04226300	POWER PCB ASSY
	9A04217900	FUSE CLIP, PFC5000-0202
	9A04220300	SW, SKHV10910D01
SW601	△ *9A04227200	AC OUTLET, CCT1304-0212
	△ 9A04227300	SW, SDKGA4343B
CNT602	9A04327600	CONNECTOR, AC 3P
CNT604	9A04227000	CONNECTOR PLUG, AC S-2 2P
CNT606	9A04327300	CONNECTOR PLUG, 4P
CNT902	9A04200800	CONNECTOR PLUG, 3P
D601-604	△ 9A04203500	DIODE, IN4002
D605	9A04203500	DIODE, IN4002
D606	9A04227600	DIODE, ZENER UZ 7.5BSC
D607/608	9A04203700	DIODE, ZENER UZ 15.0BSC
D609-612	△ 9A04226400	DIODE, RECTIFIER PX6A03
D613/614	9A04203500	DIODE, IN4002
F601	△ 9A04194900	FUSE, 51S 125V 6.3A(UL/C)
F602	△ 9A04327700	FUSE, SLW-BLW 125V 315MA
Q601	9A04324000	TR, MPS A06
R601	△ 9A04324200	R, MF 2W 22 J
R605	△ 9A04324400	R, CF 1/5W 3.3M J
RLY601	△ 9A04327800	RELAY, OSZ-SS-112DM8
TRANS602	△ 9A04226500	PWR(ST-BY)TRANS., RV5010R/A

## VCR 2 PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*9A04210100	VCR 2 PCB ASSY
	9A04210400	JACK, RCA IP YKB11-0868
CNT202	9A04305400	CONNECTOR ASSY, 3P 400MM
CNT203	9A04305500	CONNECTOR ASSY, 2P 500MM

## BALANCE PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*9A04210600	BALANCE PCB ASSY
	*9A04210800	SHIELD FENCE, B
	9A04210700	VR, RK16K1I8000114H
CNT303	9A04305600	CONNECTOR ASSY, 3P 200MM

## LED PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*9A04210900	LED PCB ASSY
CNT304	9A04211100	CNT MO 5264 #28 I80DL
D301	9A04305700	LED, SLR54UR3 LED

## POWER SW PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*9A04220400	POWER SW PCB ASSY
CNT901	9A04327400	CONNECTOR PLUG, 3P ANGLE

**AG-V3020**

**MEMO**

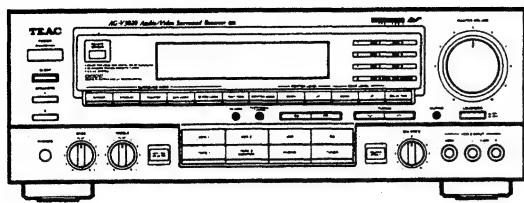
**MEMO**

# AG-V3020

**TEAC**®

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TEAC DEUTSCHLAND GmbH	Bahnstrasse 12, 6200 Wiesbaden-Erbenheim, Germany	Phone:0611-71580
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TEAC ITALIANA S.p.A.	Via C. Cantù 5, Cinisello Balsamo, Milano, Italy	Phone:02-66010500

**TEAC**®



## **SERVICE MANUAL**

# **AG-V3020**

**Audio/Video Surround Receiver**

## **SUPPLEMENT**

Please use this Supplement together with the original AG-V3020 Service Manual  
(Parts No.: 5704064400).

### **NOTES ON PARTS LIST**

- Except for parts information on pages 3 and 4 in the Supplement, the original manual's all the parts information are applicable to four versions (US, C, E, and GE).
- Parts marked with \* require longer delivery time.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- △ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.

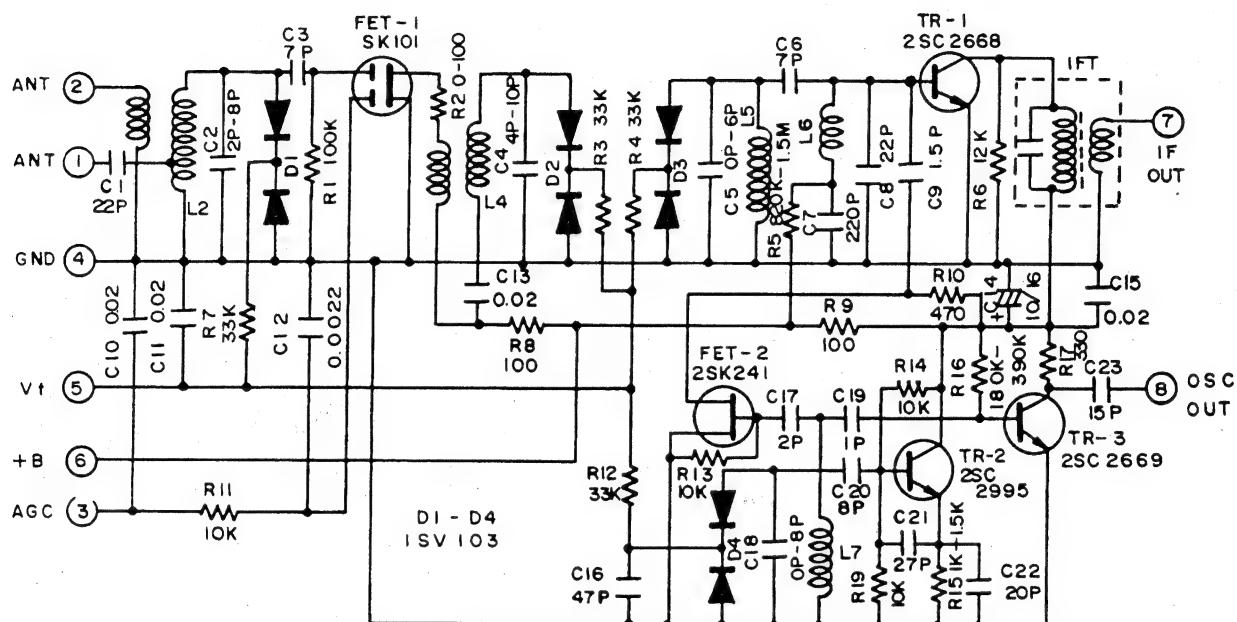
[J]:JAPAN [US]:U. S. A. [C]:CANADA [GE]:GENERAL EXPORT [E]:EUROPE [UK]:U. K. [A]:AUSTRALIA

## 2. ADJUSTMENTS AND CHECKS

The original manual's all "Adjustments and Checks" information about General Export models is also applicable to Europe models.

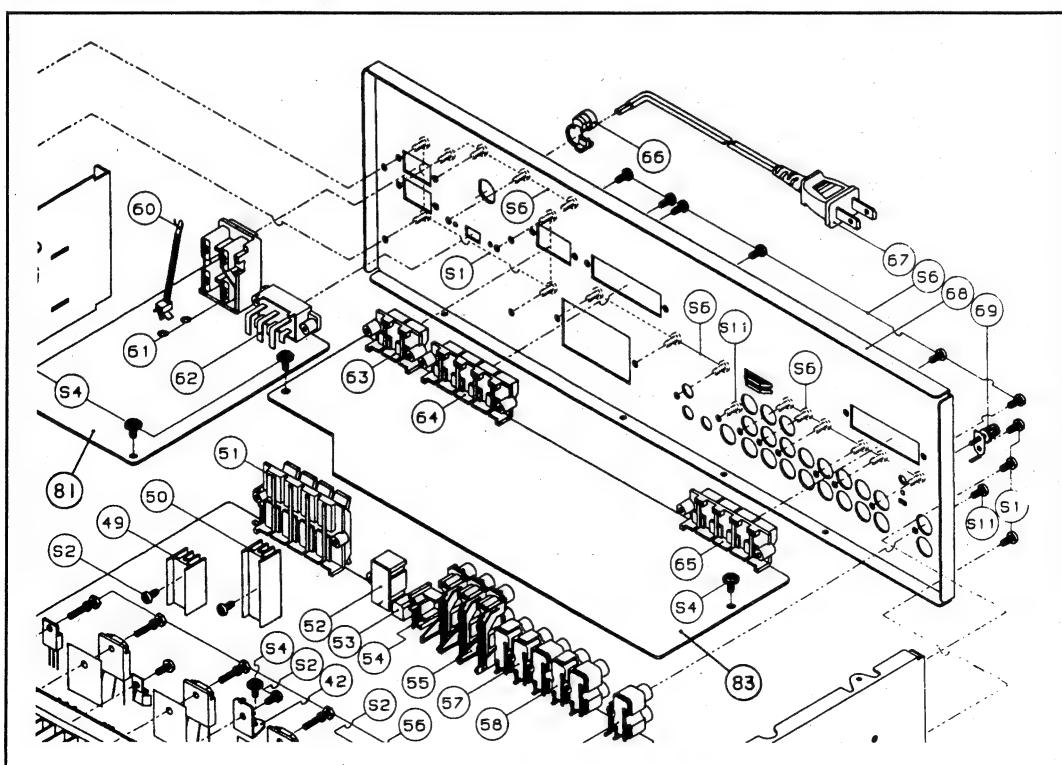
## 4. IC BLOCK DIAGRAMS

FRONT END: FE 407-G60(FOR EUROPE. VERSION ONLY)

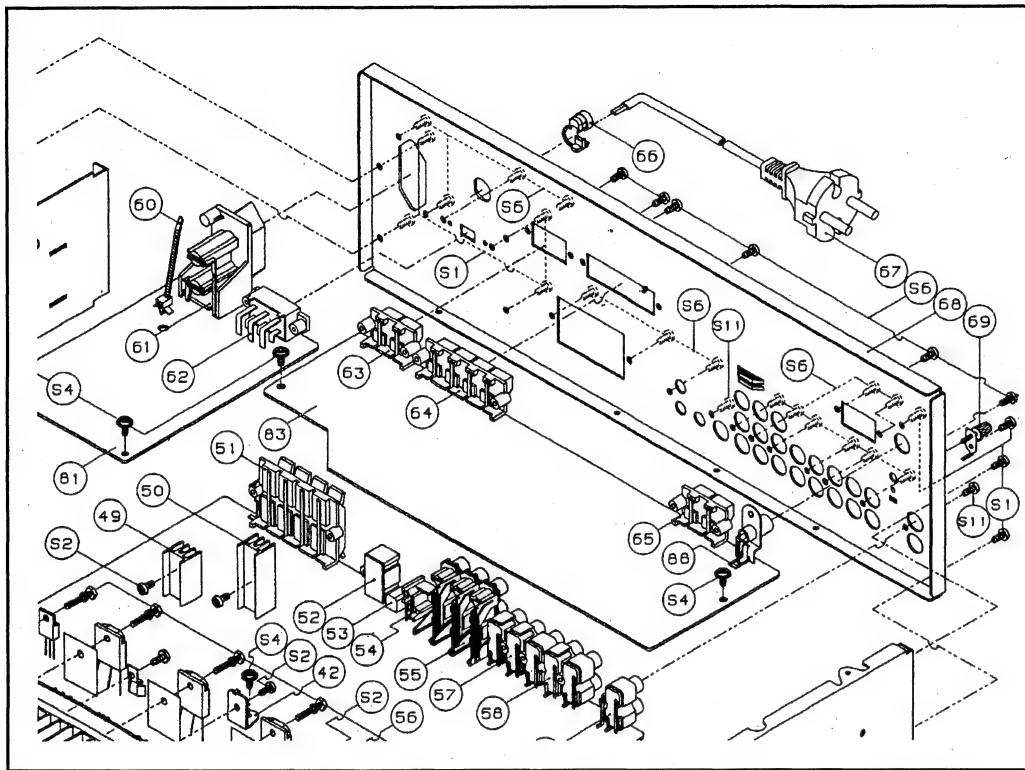


## 5. EXPLODED VIEW AND PARTS LIST

U.S.A. and Canada (US, C)



### Europe (E)



## 6. PC BOARDS AND PARTS LIST

### TUNER PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
83	*9A04211400	TUNER PCB ASSY [US,C]
83	*9A04211420	TUNER PCB ASSY [E]
83	*9A04211450	TUNER PCB ASSY [GE]
	9A04217900	FUSE CLIP, PFC5000-0202
63	9A04213900	TERMINAL, SPEAKER 2P
64	9A04213800	TERMINAL, SPEAKER 4P
65	9A04213700	TERM., ANTENNA 4P [US,C,GE]
65	9A04540700	TERMINAL, ANTENNA [E]
88	9A04540800	JACK, ANTENNA [E]
CF1,2	9A04213300	FILTER, C SFE10.7MA8 [US,C]
CF1,2	9A04544000	FILTER, 10.7MS3G [E,GE]
CF4	9A04213200	FILTER, C SFZ450B
CF5	9A04326000	RESONATOR, BFU450C4N
CF6	9A04213600	RESONATOR, CSB456F1I
CNT101	9A04201300	CONNECTOR, AC 3P
CNT102	9A04201300	CONNECTOR, AC 3P
CNT204	9A04214400	CNT, GIL-12P-S2L2-EF
CNT801	9A04200800	CONNECTOR PLUG, 3P
CNT802	9A04214200	CONNECTOR PLUG, 6P
CNT803	9A04214100	CON.PLUG, 4P(5267-04A)
CNT903	9A04214300	CNT, GIL-11P-S2L2-EF
D101-105	9A04202800	DIODE, IN4148M
D106	9A04203500	DIODE, IN4002
D107-114 △	9A04211500	DIODE, IN5402
D115/116	9A04203500	DIODE, IN4002
F101/102 △	9A04194700	FUSE, SB 20 3.5A 125V[US,C]
F101/102 △	9A04545300	FUSE, T3.15/250V [E,GE]
F103/104 △	9A04194600	FUSE, 51S 125V 3A [US,C]
F103/104 △	9A04545300	FUSE, T3.15/250V [E,GE]
FE101	9A04213500	FM, FE306-A15 [US,C,GE]
FE101	9A04544100	FM, FE407-G60 FRONT END [E]
IC101	9A04211800	IC, LA1266
IC102	9A04211900	IC, LA3410
IC103	9A04211700	IC, LM7001
L101	9A04212000	COIL, AM ANT
L102	9A04212100	COIL, AM OSC
L103	9A04212300	COIL, FM QUAD DET (A)
L104	9A04212400	COIL, QUAD DET(B) FM
L105	9A04212500	COIL, AM IFT P-7SB
L106/107	9A04212200	COIL, MPX 19KHZ FB-7SG
L108	9A04542000	INDUCTOR, 20.8MH [E]
L109-111	9A04200100	COIL INDUCTOR, 0.5MH
Q101	9A04214800	TR, KTC1923Y
Q102	9A04203300	TR, KTC2240BL
Q103	9A04214600	FET, N-CH 2SK168D
Q104-107	9A04214700	TR, DTA114YS
Q109L/R	9A04203000	TR, KTC1815Y
TC101	9A04213000	C, TRIMMER TZ03-R200FR 169
TC102	9A04212900	C, TRIMMER TZ03-T110FR 169
V101/102	9A04211600	DIODE, VARACTOR KVI236Z
VR101,102	9A04216400	VR, SEMI 50K EVN-DJAA03B54
VR102	9A04542900	VR, SEMI 100K [E]
VR103	9A04216300	VR, SEMI 220K
X101	9A04213400	X'TAL, 7.200MHz

### POWER PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
81	*9A04226300	POWER PCB ASSY [US,C]
81	*9A04226320	POWER PCB ASSY [E]
81	*9A04226350	POWER PCB ASSY [GE]
	9A04217900	FUSE CLIP, PFC5000-0202
19	9A04220300	SW, SKHV10910D01
61	△*9A04227200	AC OUTLET [US,C,GE]
61	△*9A04544800	AC OUTLET [E]
62	△ 9A04227300	SW, SLIDE (SW601) [US,C,GE]
62	△ 9A04544900	SW, SLIDE (SW601)[E]
CNT602	9A04327600	CONNECTOR, AC 3P
CNT602	9A04195100	CNT, KST 0316LV UL#18 [E]
CNT604	9A04227000	CONNECTOR PLUG, AC S-2 2P
CNT604	9A04546400	ASSEMBLY 2P 180MM [GE]
CNT605	9A04544400	ASSEMBLY 3P 160MM [GE]
CNT606	9A04327300	CONNECTOR PLUG, 4P
CNT902	9A04200800	CONNECTOR PLUG, 3P
D601-604 △	9A04203500	DIODE, IN4002
D605	9A04203500	DIODE, IN4002
D606	9A04227600	DIODE, ZENER UZ 7.5BSC
D607/608	9A04203700	D., ZENER UZ 15.0BSC[US,C,E]
D609-612 △	9A04226400	DIODE, RECTIFIER PX6A03
D613	9A04203500	DIODE, IN4002 [E,GE]
D613/614	9A04203500	DIODE, IN4002 [US,C]
F601	△ 9A04194900	FUSE, 51S 125V 6.3A [US,C]
F601	△ 9A04545100	FUSE, T.LAG 6.3A/250V[GE]
F601	△ 9A04545300	FUSE, T3.15/250V [E]
F602	△ 9A04327700	FUSE, 125V 315MA [US,C]
F602	△ 9A04545000	FUSE, T.LAG 315MA/250V[E,GE]
F603	△ 9A04545200	FUSE, TIME LAG 2.5A/250V[E]
Q601	9A04198400	TR, MPSA06 [E,GE]
Q601	9A04324000	TR, MPS A06 [US,C]
R601	△ 9A04324200	R, MF 2W 22 J
R605	△ 9A04324400	R, CF 1/5W 3.3M J
RLY601	△ 9A04327800	RELAY, OSZ-SS-112DM8[US,C,E]
TRANS602 △	9A04226500	TRANS., RV5010R/A [US,C]
TRANS602 △	9A04542200	TRANS., 230V/50Hz [E]
TRANS602 △	9A04546100	TRANS., 120V/230V [GE]

### SELECTOR PCB ASSY [GE ONLY]

REF. NO.	PARTS NO.	DESCRIPTION
84	*9A04540900	SELECTOR PCB ASSY
	9A04217900	FUSE CLIP,PFC5000-0202
85	9A04546600	SW, SLIDE
86	9A04544900	SW, SLIDE
CNT604	9A04227000	CONN. PLUG, AC S-2 2P
CNT605	9A04201300	CONNECTOR, AC 3P
CNT607	9A04546500	WAFER, AC 5P
F604	9A04545300	FUSE, T3.15/250V

**AG-V3020**

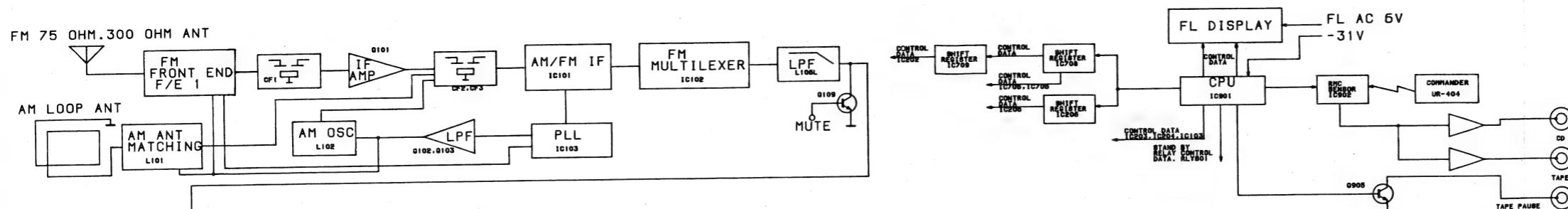
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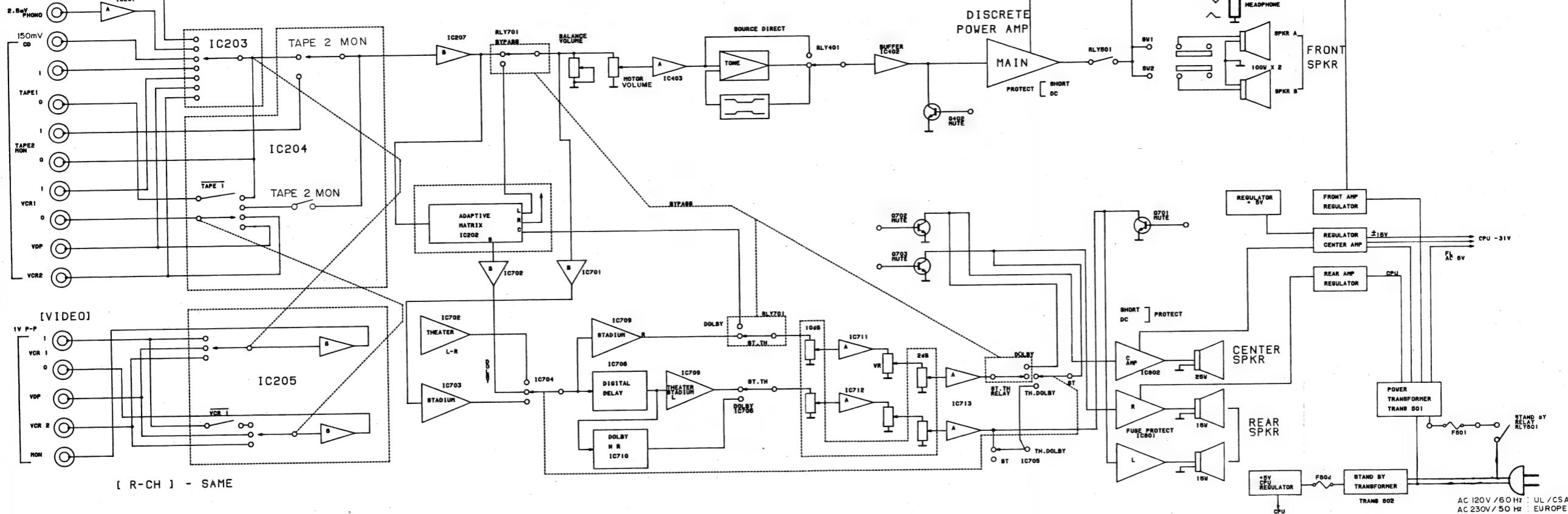
**TEAC** SCHEMATIC DIAGRAM AG-V3020 BLOCK DIAGRAM

1 2 3 4 5 6 7

A



B



C

D

E

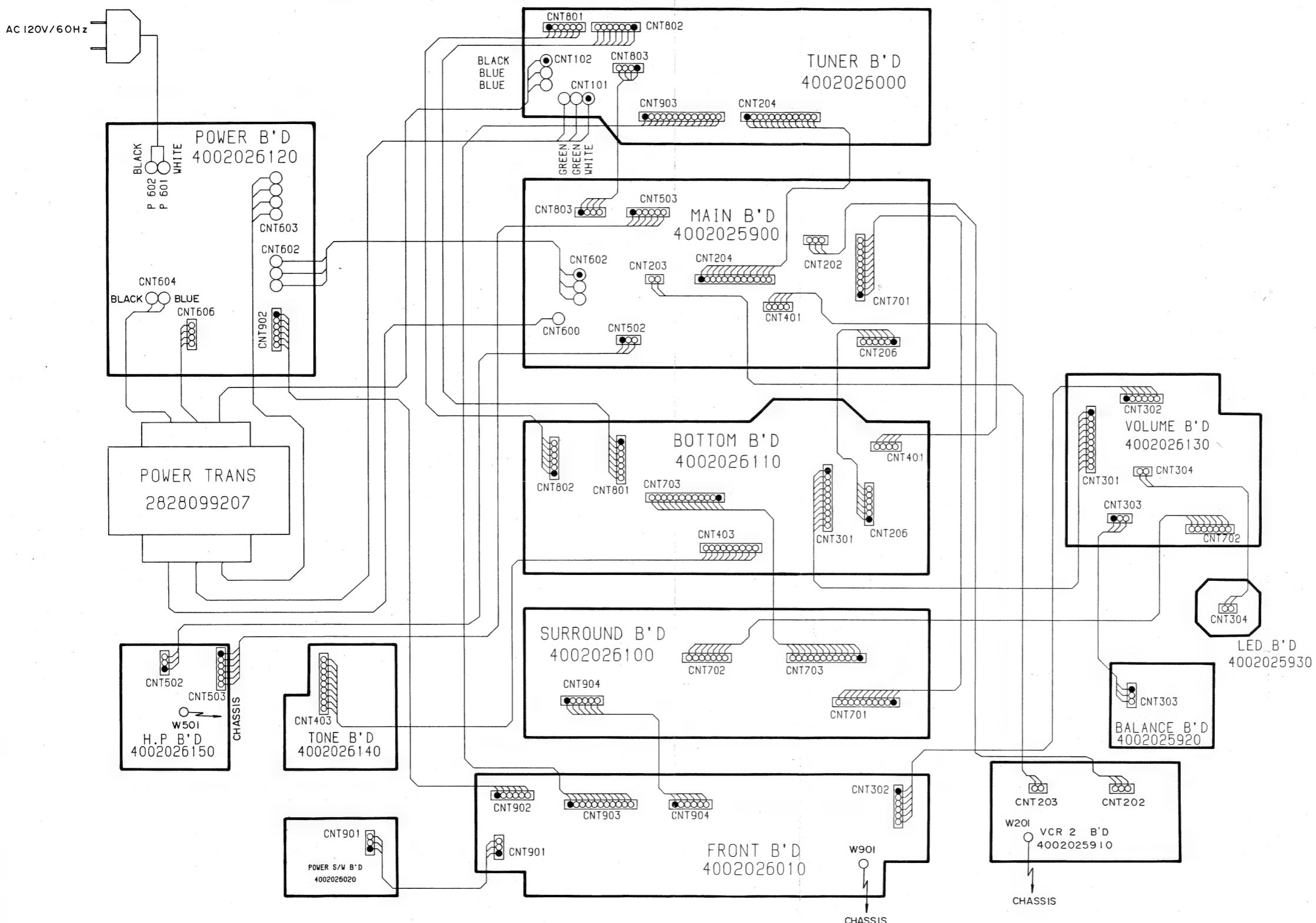
**AG-V3020**  
Audio/Video Surround Receiver

1st Issue; March, 1993

PRINTED IN JAPAN BY SHIBATA CO., LTD.

**TEAC** SCHEMATIC DIAGRAM **AG-V3020** WIRING DIAGRAM

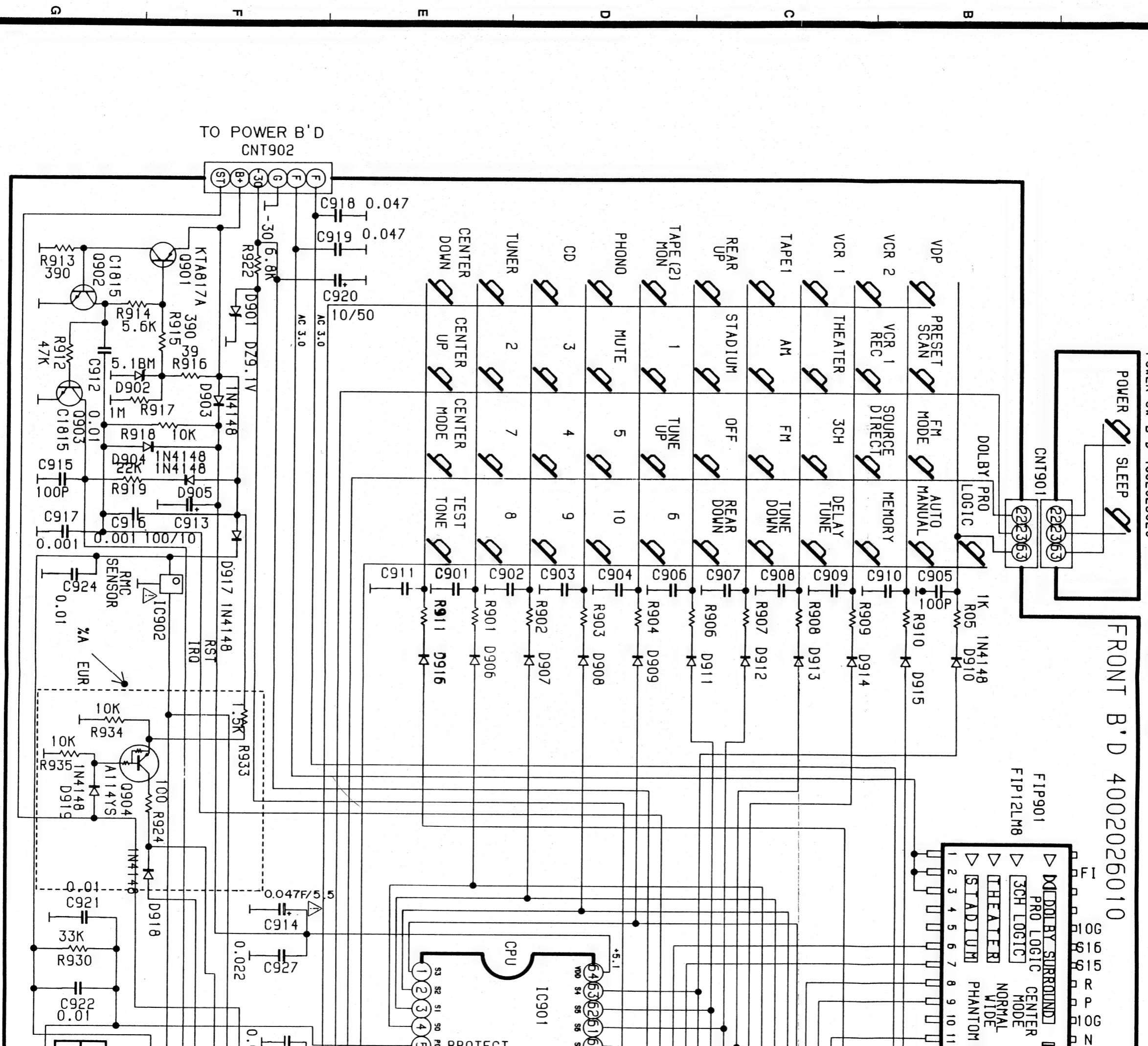
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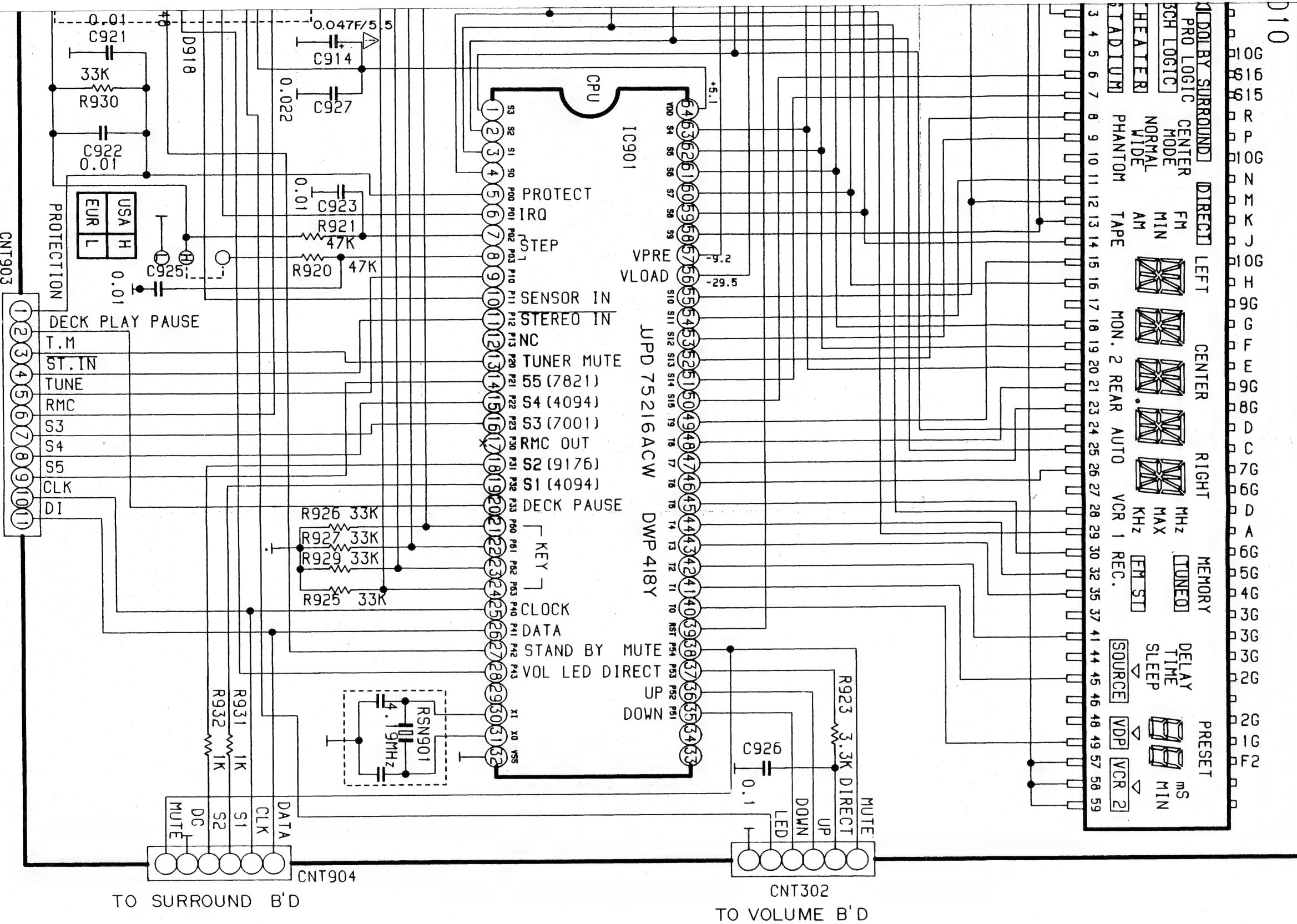


**AG-V3020**  
Audio/Video Surround Receiver

1st Issue; March, 1993

# TEAC SCHEMATIC DIAGRAM AG-V3020 FRONT SECTION





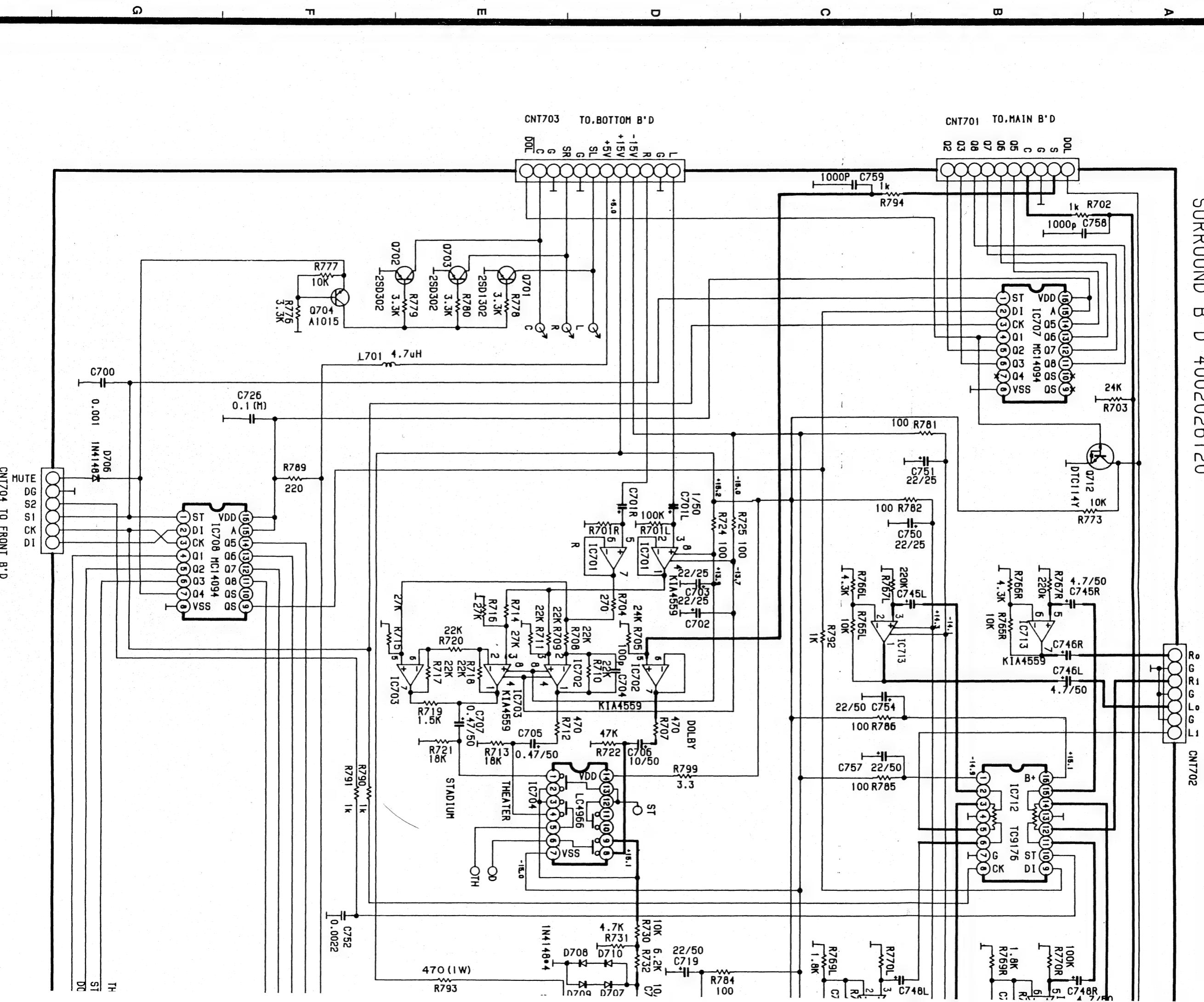
# AG-V3020

## Audio/Video Surround Receiver

1st Issue; March, 1993

# TEAC SCHEMATIC DIAGRAM AG-V3020 SURROUND SECTION

SURROUND B'D 4002026120

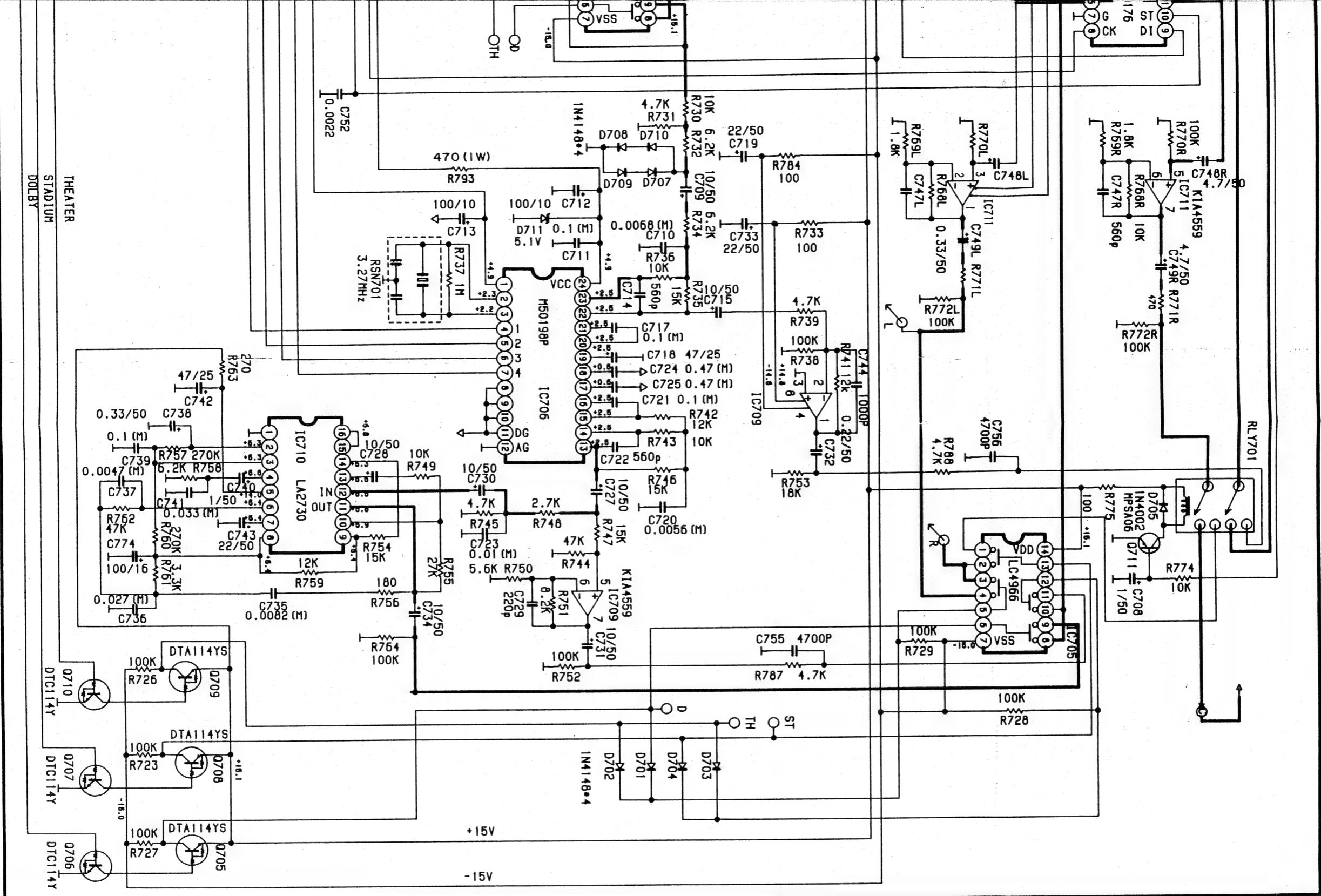


H

INSTRUCTIONS FOR SERVICE PERSONNEL  
BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-  
CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED  
PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

**A.G.-V3020**

1st Issue; March, 1993



# TEAC SCHEMATIC DIAGRAM AG-V3020 TUNER SECTION

1

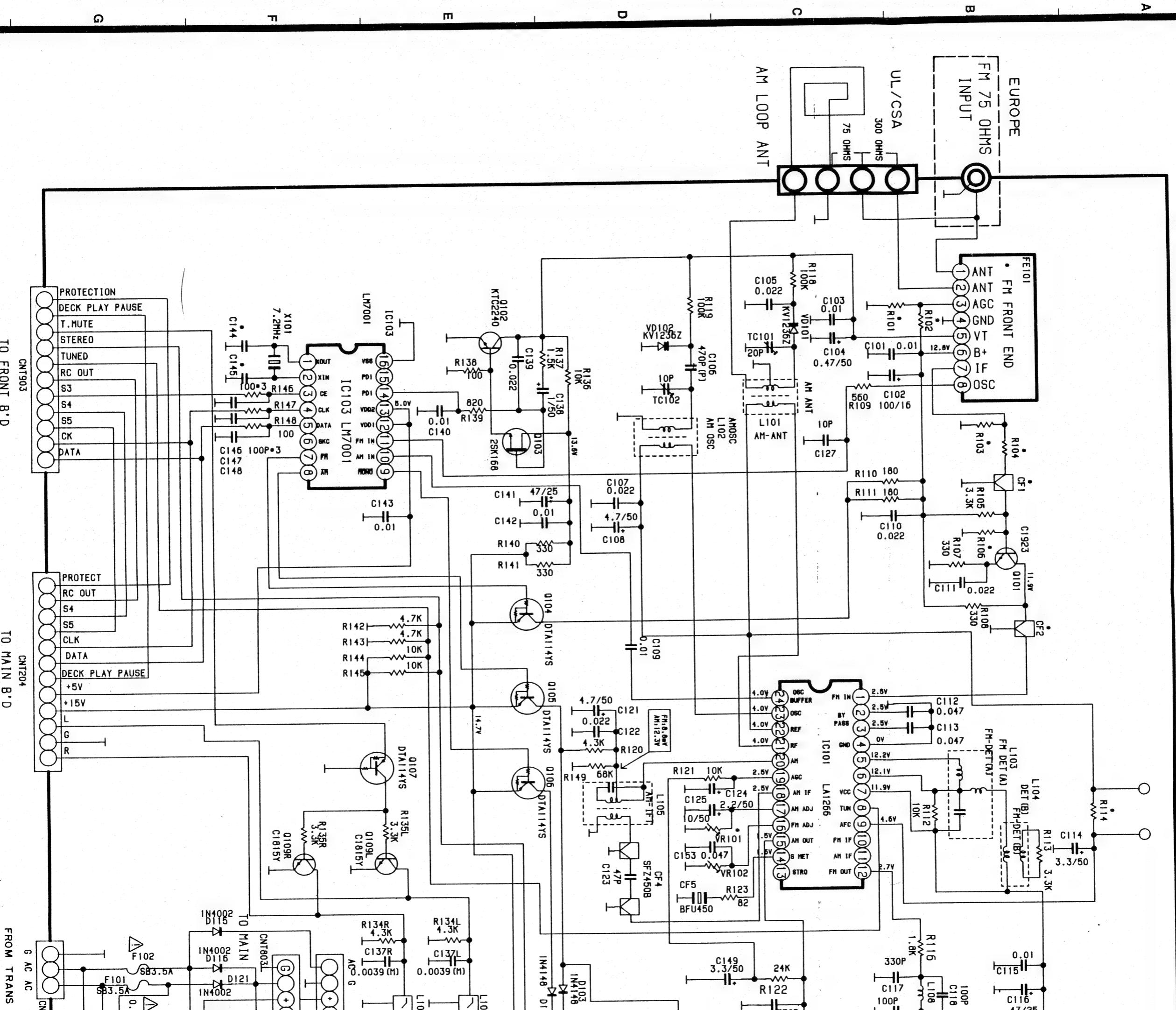
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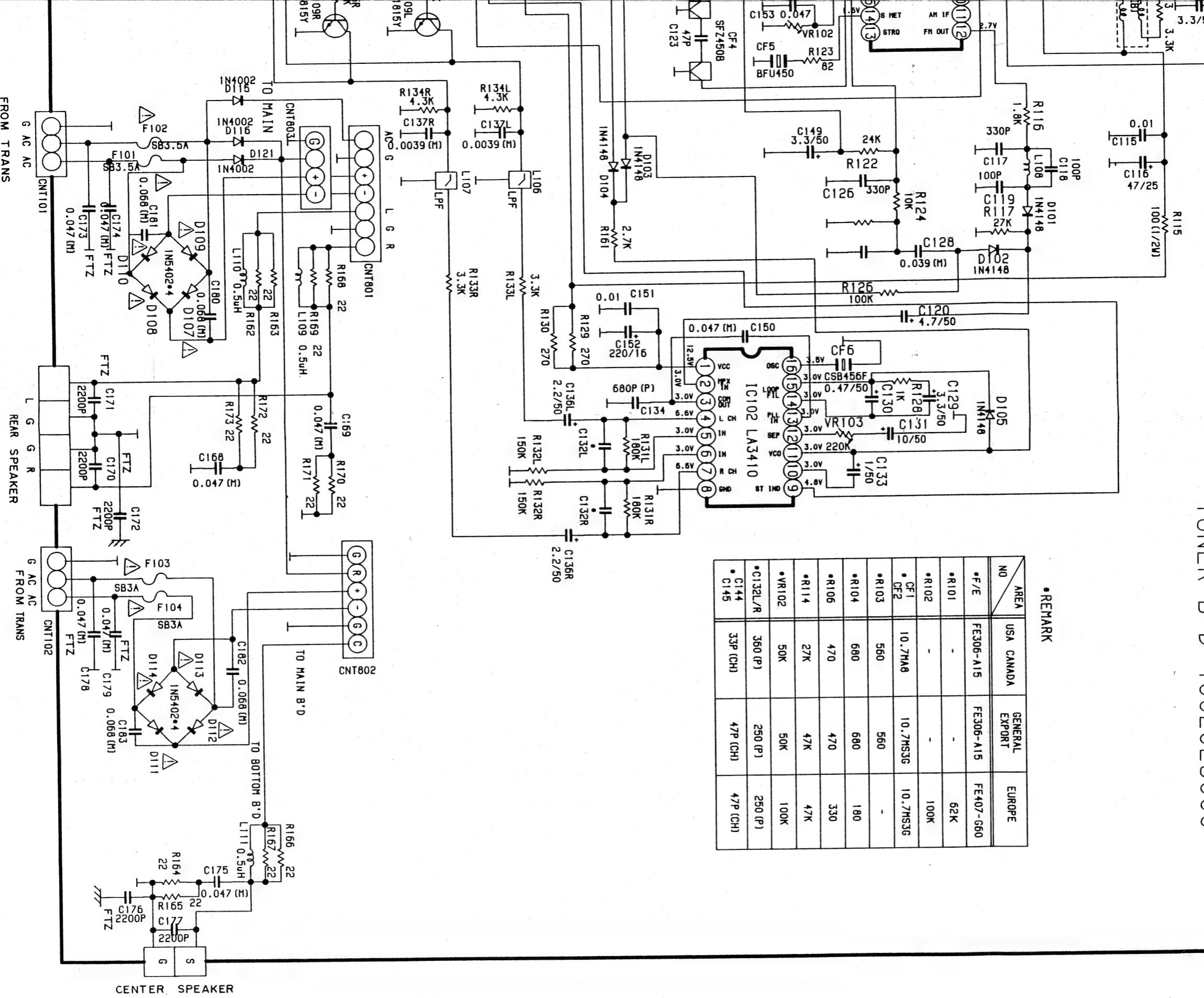
INSTRUCTIONS FOR SERVICE PERSONNEL  
BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-  
CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED  
PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

▲ Parts marked with this sign are safety critical components. They  
must always be replaced with identical components - refer to the TEAC  
part list and ensure exact replacement.

# TUNER B'D 4002026000

## \*REMARK

NO	AREA	USA CANADA	GENERAL EXPORT	EUROPE
*R101	-	-	-	52K
*R102	-	-	-	100K
*CF1	10.7MHz	10.7MS3G	10.7MS3G	
*R103	560	560	-	
*R104	680	680	180	
*R105	470	470	330	
*R114	27K	47K	47K	
*VR102	50K	50K	100K	
*C144	360 (P)	250 (P)	250 (P)	
*C145	33P (CH)	47P (CH)	47P (CH)	



## MAIN B'D 4002025900

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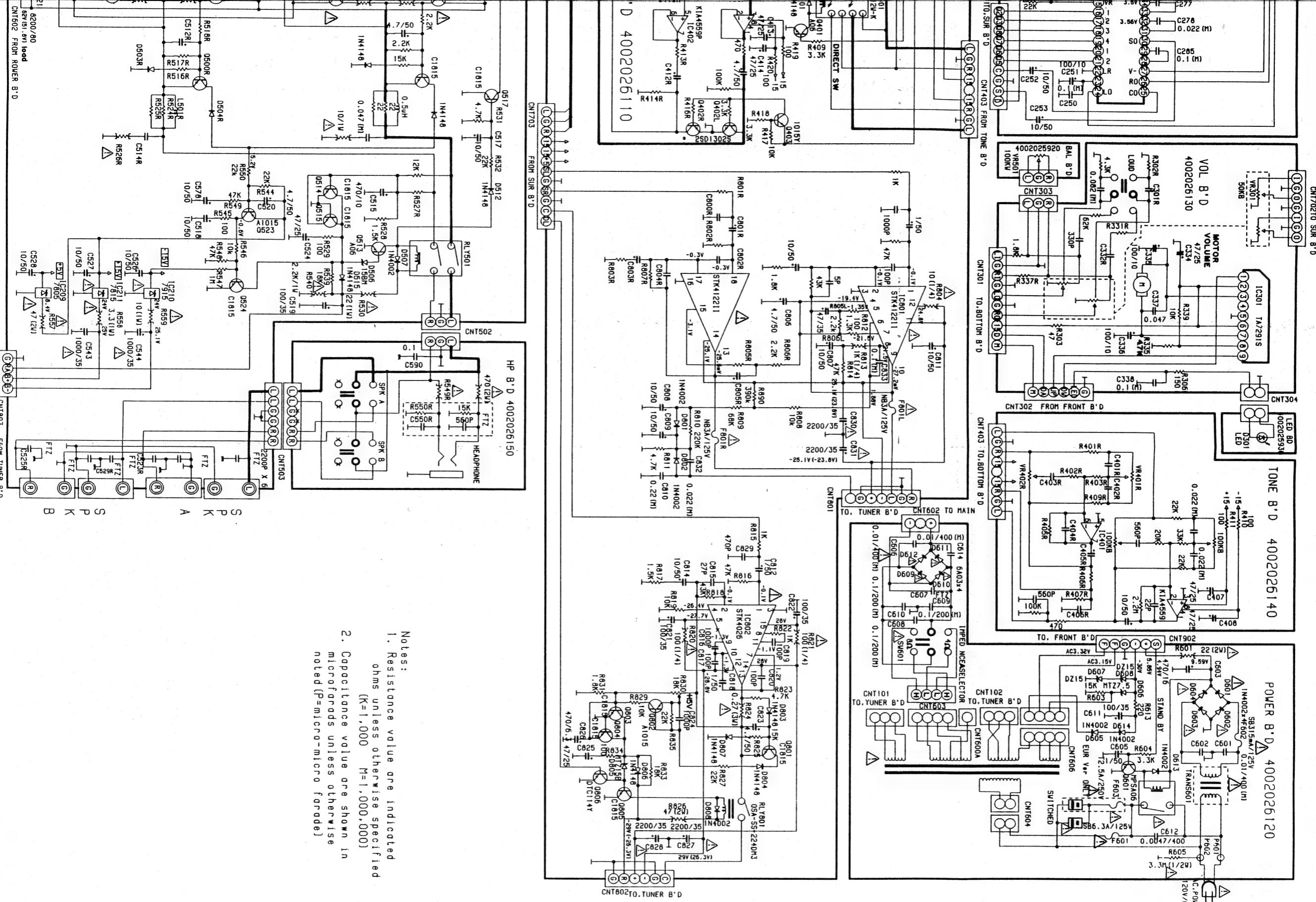
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# AC-V3020

Audio/Video Surround Receiver  
1st Issue; March, 1993



# TEAC SCHEMATIC DIAGRAM AG-V3020 TUNER SECTION

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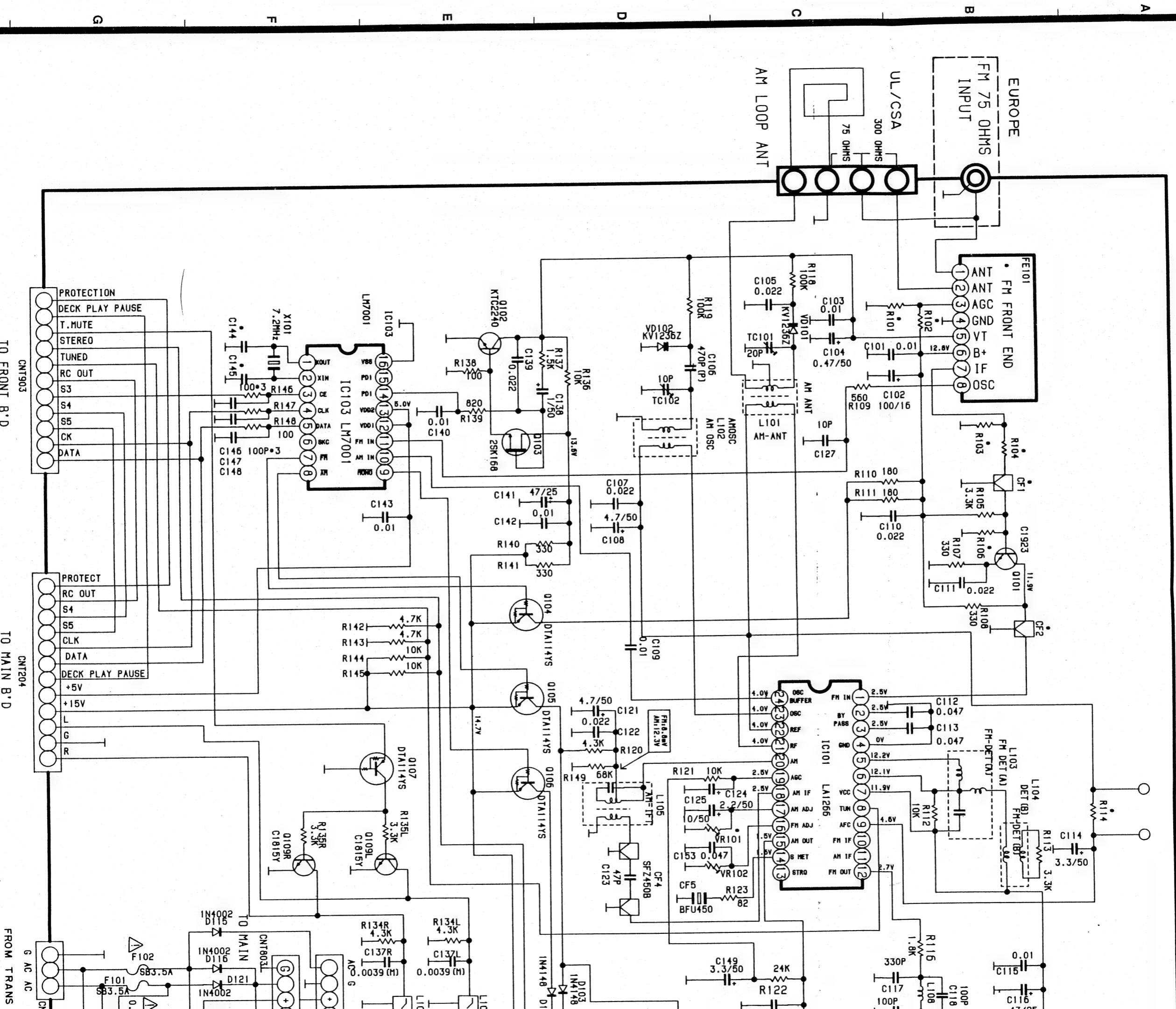
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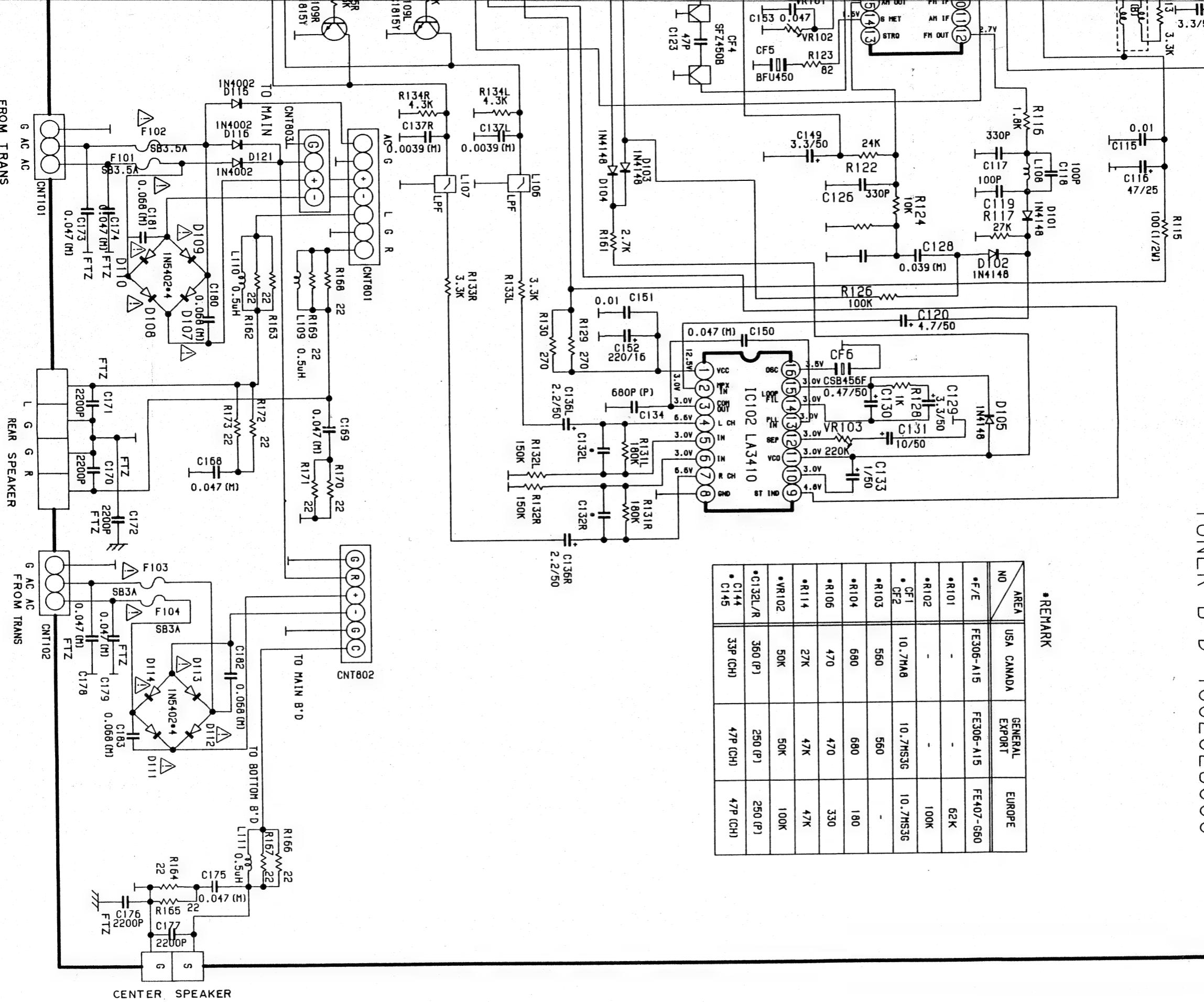
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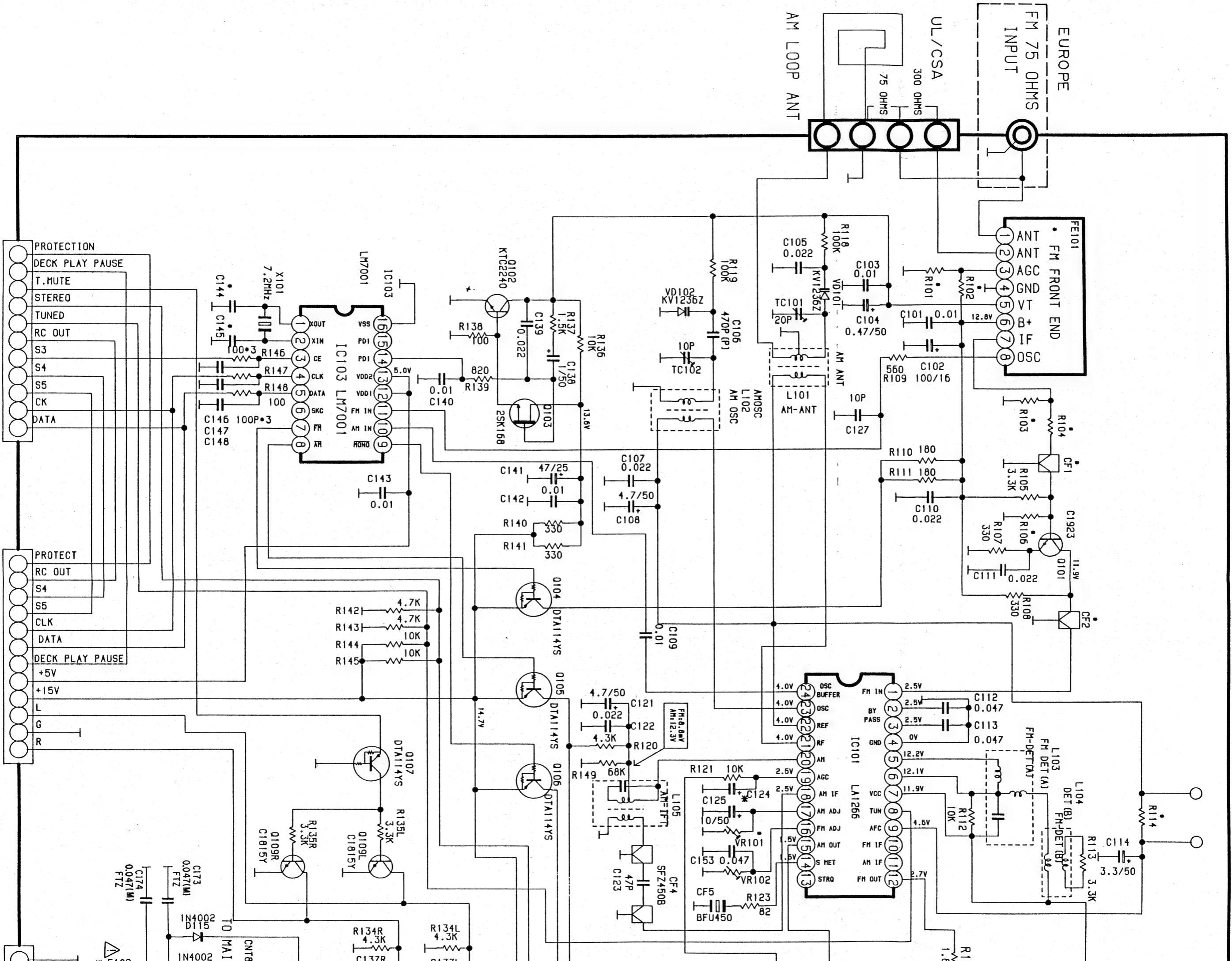


# TUNER B'D 4002026000

## \*REMARK

NO	AREA	USA CANADA	GENERAL EXPORT	EUROPE
*F/E	FE306-A15	FE306-A15	FE407-G50	
*R101	-	-	-	62K
*R102	-	-	-	100K
*CF1	10.7MHz	10.7MHz3G	10.7MHz3G	
*CF2				
*R103	560	560	-	
*R104	680	680	180	
*R114	27K	47K	47K	
*VR102	50K	50K	100K	
*C132L/R	360 (P)	250 (P)	250 (P)	
*C145	33P (CH)	47P (CH)	47P (CH)	

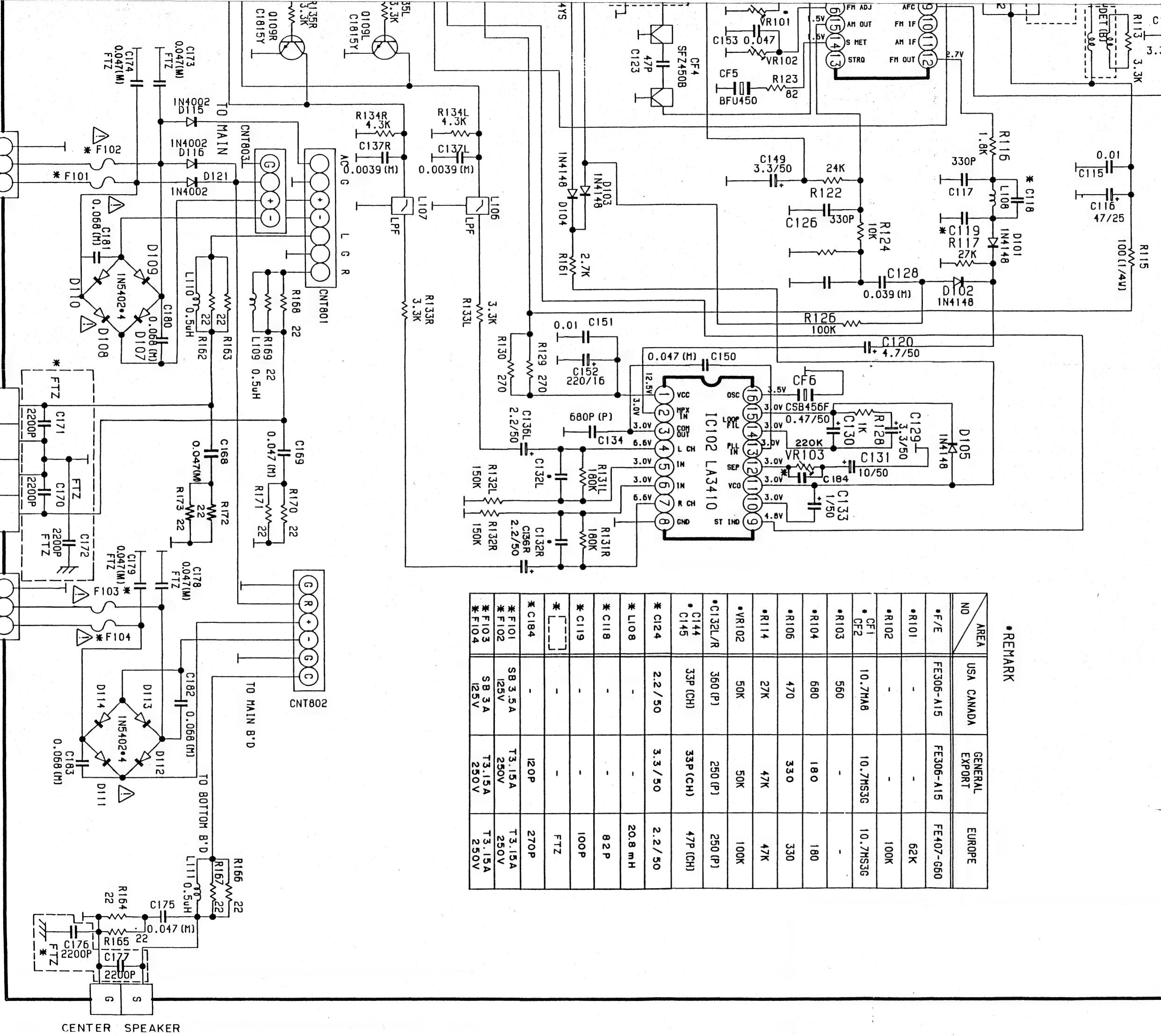




# TUNER B'D 4002026000

## \*REMARK

NO	AREA	USA	CANADA	GENERAL EXPORT	EUROPE
*F/E	FE306-A15	FE306-A15	-	-	FE407-G50
*R101	-	-	-	-	62K
*R102	-	-	-	-	100K
*CF1	10.7M <sub>A</sub> B	10.7M <sub>S</sub> 3G	10.7M <sub>S</sub> 3G	10.7M <sub>S</sub> 3G	10.7M <sub>S</sub> 3G
*CF2	10.7M <sub>A</sub> B	10.7M <sub>S</sub> 3G	10.7M <sub>S</sub> 3G	10.7M <sub>S</sub> 3G	10.7M <sub>S</sub> 3G
*R103	550	-	-	-	-
*R104	680	180	180	180	180
*R105	470	330	330	330	330
*R106	47K	47K	47K	47K	47K
*R107	50K	50K	50K	50K	100K
*C132L/R	360 (P)	250 (P)	250 (P)	250 (P)	250 (P)
*C144	33P (CH)	33P (CH)	47P (CH)	47P (CH)	47P (CH)
*C145	33P (CH)	33P (CH)	47P (CH)	47P (CH)	47P (CH)
*C124	2.2 / 50	3.3 / 50	2.2 / 50	2.2 / 50	2.2 / 50
*L108	-	-	-	-	20.8 mH
*C118	-	-	-	-	8.2 P
*C119	-	-	-	-	100P
*L107	-	-	-	-	FTZ
*C184	-	I20P	270P	270P	270P
*C191	-	I20P	270P	270P	270P
*F101	S8 3.5A	T3.15A	T3.15A	T3.15A	T3.15A
*F102	I25V	250V	250V	250V	250V
*F103	S8 3A	T3.15A	T3.15A	T3.15A	T3.15A
*F104	I25V	250V	250V	250V	250V



MODEL NAME:AG-V3020

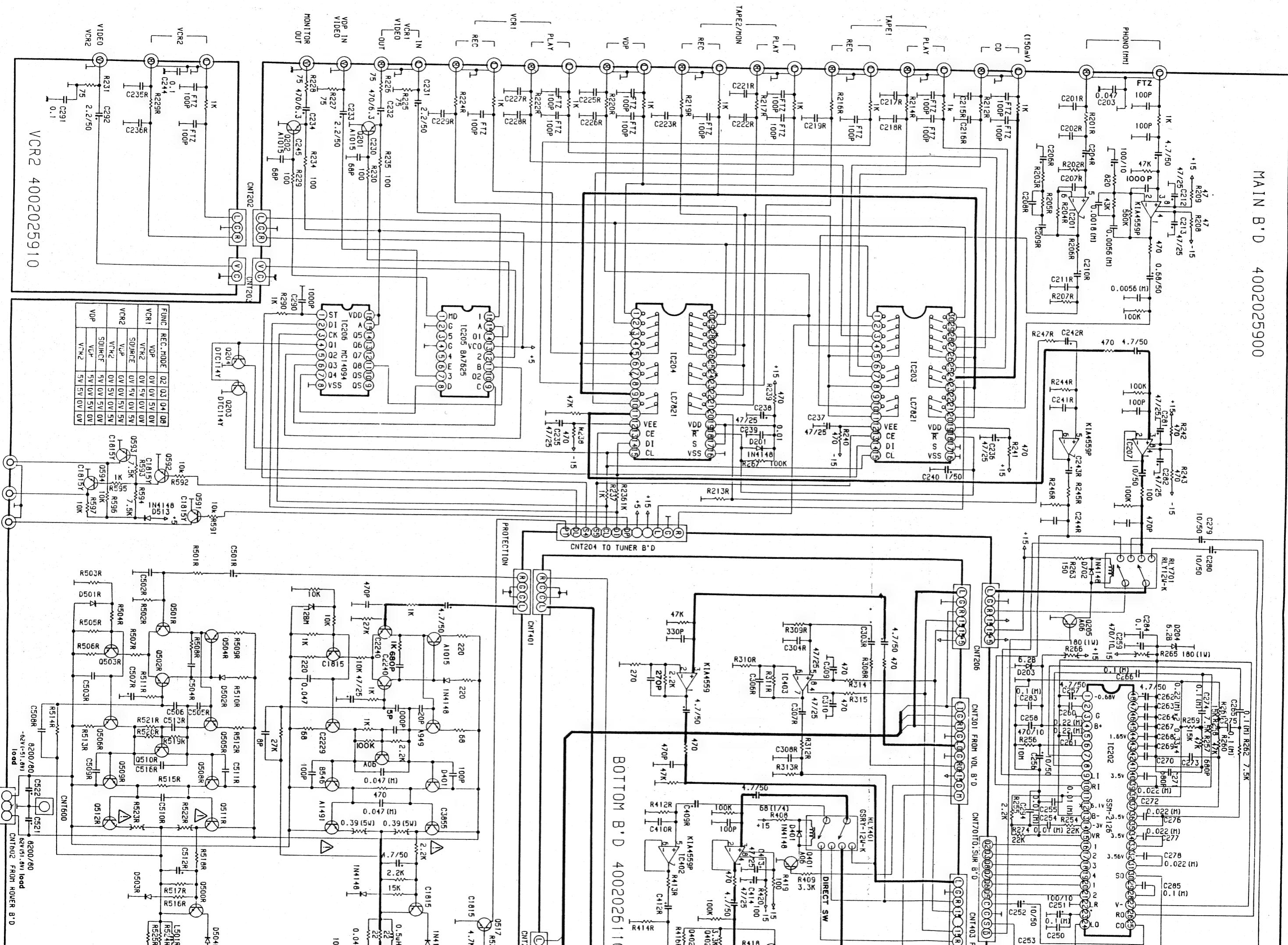
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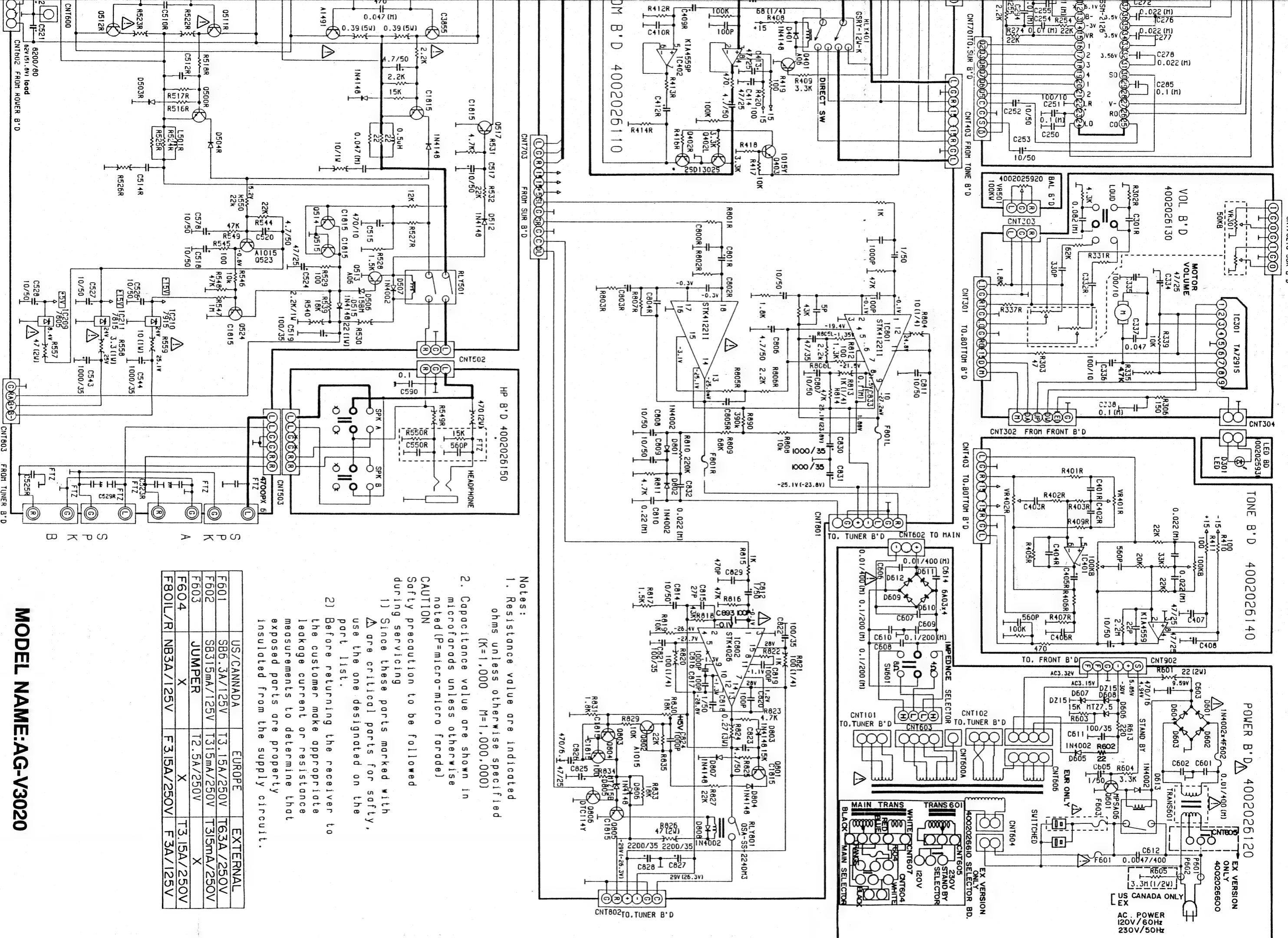
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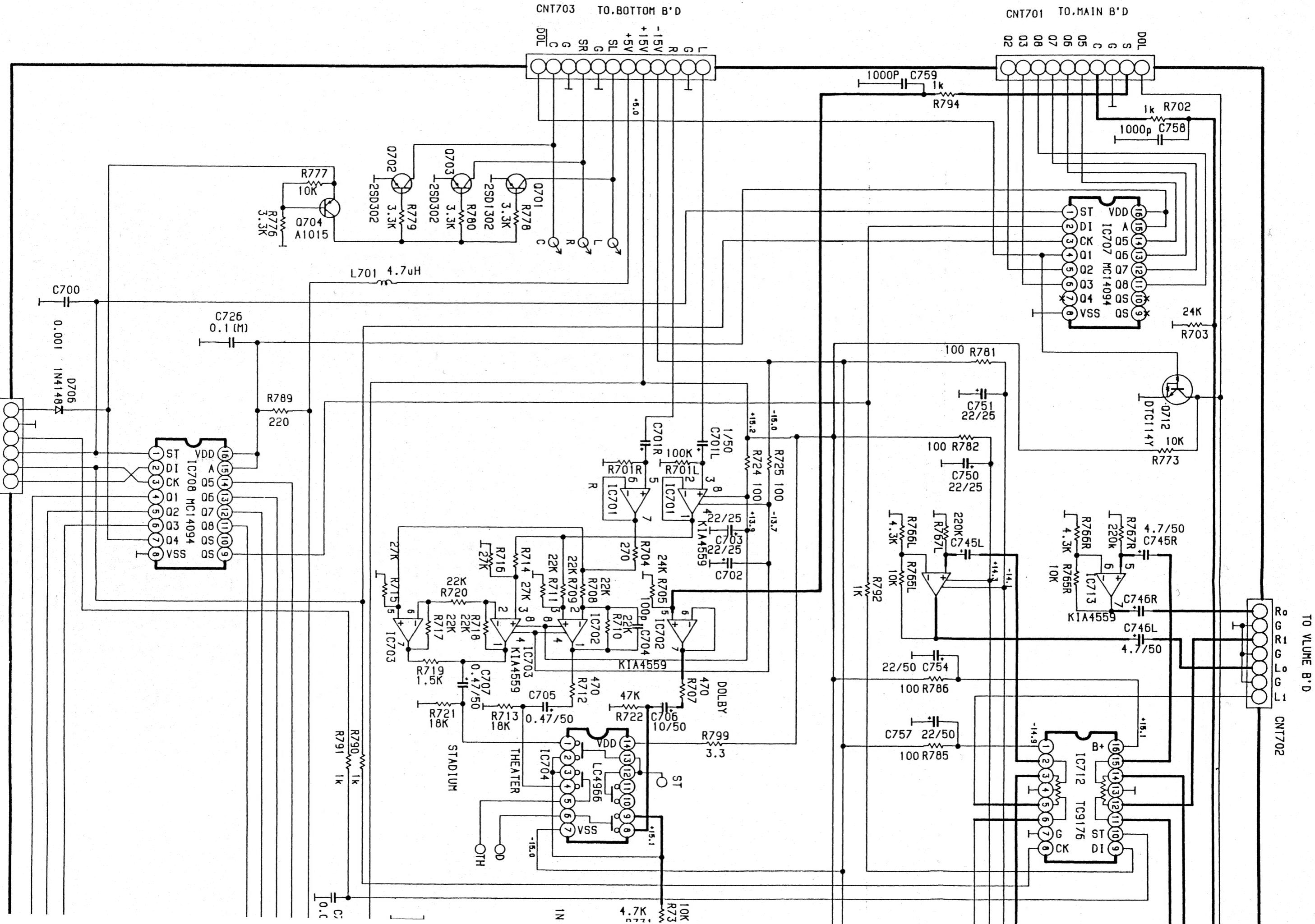
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MAIN B'D 4002025900

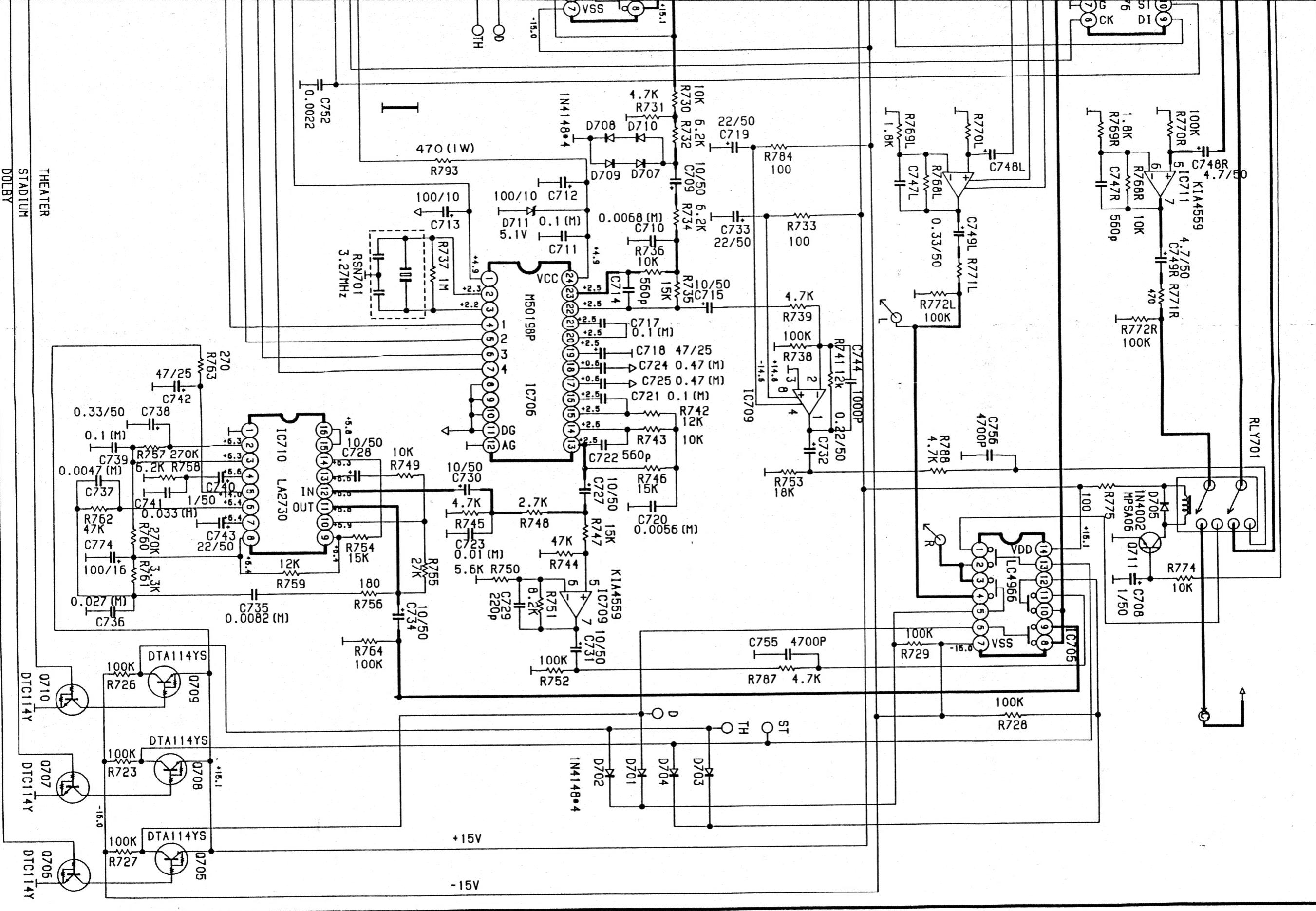
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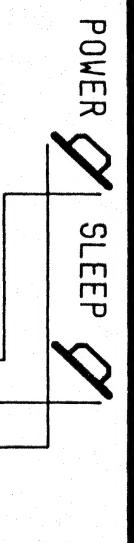




MODEL NAME:AG-V3020



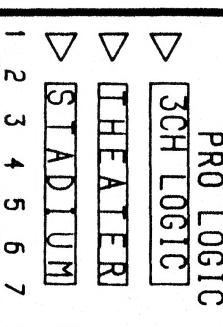
POWER SW B'D 4002026020



FRONT B'D 4002026010

FIP901  
FIP12LM8

▷ DOLBY SURR PRO LOGIC  
▷ 3CH LOGIC  
▷ THEATER  
▷ STADIUM



VDP

PRESET SCAN

VCR 1 REC

VCR 2

DOLBY PRO LOGIC

AUTO MANUAL

SOURCE DIRECT

MEMORY

DELAY TUNE

TUNING

TEST TONE

CPU

AM

FM

OFF

REAR TUNE DOWN

STADIUM

TAPE1

TAPE2

THEATER

3CH

CD

PHONO

CD

PHONO

CD

REAR UP

CD

PHONO

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PHONO

TAPE1

CD

PHONO

CD

PHONO

TO POWER B'D  
CNT902

C918 0.047  
C919 0.047  
C920 10/50  
AC 3.0  
R913 390  
R914 5.6K  
KTA817A 390 39  
R901 39  
R915 5.1BM  
D902 1M  
R916 10K  
D903 1N4148  
D904 22K  
R917 1N4148  
R918 1N4148  
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